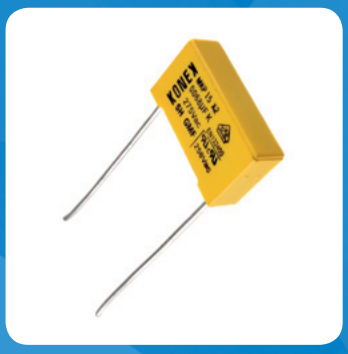
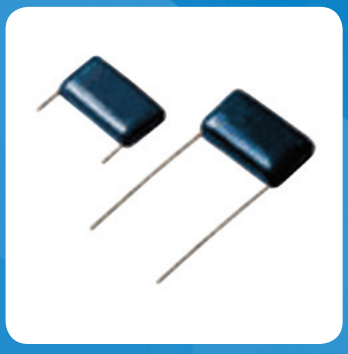




μ's
MICROS


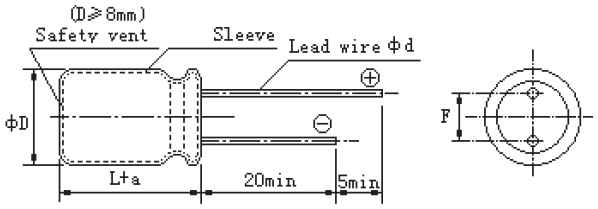
KONDENSATORY
CAPACITORS

Spis treści / Contents

Kondensatory elektrolityczne standardowe
Aluminium electrolytic capacitors, standard type

- Mały rozmiar
- 85°C, 2000h
- Wysoka stabilność i niezawodność

- Small size
- 85°C, 2000h
- High stability and relability



mm

ΦD ±0.5	5	6.3	8	10	12.5 or 13	16	18
L	11	11	11.5	12, 16, 20	20, 25	25, 31, 36	36, 40
F ±0.5	2.0	2.5	3.5	5.0		7.5	
Φd ±0.05	0.5		0.6			0.8	
a	1.5(V≤100); 2.0(V>100)					2.0	

SPECYFIKACJA / SPECIFICATION	RS1	
Zakres temperatur pracy Operating temperature range	-40°C~+85°C	-25°C~+85°C
Zakres napięć znamionowych Rated voltage range	6.3~100V DC	160~450V DC
Zakres pojemności nominalnych Nominal capacitance range	0.47μF~33000μF	
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu Leakage current	6.3~100V DC I≤0.01CV lub/or 3μA w zależności, które większe /whichever is greater (po/after 2 min.)	160~450V DC CV≤1000: I = 0.1CV + 40μA (1min.) / I = 0.03CV + 15μA (5min.) CV>1000: I = 0.04CV + 100μA (1min.) / I = 0.02CV + 25μA (5min.)

Współczynnik rozpraszania (120 Hz, 20°C) Dissipation factor (120 Hz, 20°C)	V	6.3	10	16	25	35	50	63	100	160	250	350	400	450
	tgδ	0.28	0.24	0.2	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25	0.25
	Dla pojemności przekraczających 1000μF, należy dodać 0.02 dla każdego 1000μF For capacitance exceeding 1000μF, add 0.02 per increment of 1000μF													

Żywotność Lifetime	min. 2000h w temp. +85°C min. 2000h at +85°C

Lista elementów / Parts listing

V / μF \ I	6.3V		10V		16V		25V		35V		50V		63V		100V		160V		200V		250V		350V		400V		450V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.47															5×11	8					6.3×11	8	6.3×11	8	6.3×11	8	6.3×11	8
1.0											5×11	13			5×11	16					6.3×11	16	6.3×11	16	6.3×11	16	6.3×11	16
2.2											5×11	23			5×11	35					6.3×11	30	6.3×11	30	8×11.5	31	8×11.5	29
3.3											5×11	35			5×11	45			6.3×11	40	6.3×11	45	8×11.5	45	8×11.5	48	8×11.5	33
4.7											5×11	41			5×11	50	6.3×11	45	6.3×11	51	6.3×11	54	8×11.5	55	10×12	56	10×12	46
10											5×11	60	5×11	70	5×11	75	8×11.5	83	8×11.5	85	10×12	90	10×16	90	10×16	90	10×20	84
22									5×11	90	5×11	95	5×11	110	6.3×11	135	10×12	130	10×16	150	10×16	150	12.5×20	185	12.5×20	200	12.5×25	140
33							5×11	98	5×11	110	5×11	130	6.3×11	140	8×11.5	185	10×16	180	10×20	205	10×20	205	12.5×25	240	12.5×25	240	16×25	180
47					5×11	115	5×11	120	5×11	135	6.3×11	160	6.3×11	190	8×11.5	220	10×20	230	10×20	220	12.5×20	260	16×25	300	16×25	250	16×31	220
100	5×11	135	5×11	140	5×11	175	5×11	185	6.3×11	215	8×11.5	270	8×11.5	290	10×16	380	12.5×25	430	12.5×25	320	16×25	450	18×31	520	18×36	420	18×40	280
220	5×11	220	5×11	230	6.3×11	280	6.3×11	310	8×11.5	370	10×12	435	10×16	490	12.5×20	610	16×31	645	16×31	540	18×36	680						
330	6.3×11	280	6.3×11	310	6.3×11	360	8×11.5	410	10×12	500	10×16	590	10×20	710	12.5×25	760	16×36	700	18×36	800								
470	6.3×11	360	6.3×11	400	8×11.5	460	8×11.5	550	10×12	680	10×20	760	12.5×20	900	16×25	1000	18×40	1200										
680	6.3×11	460	8×11.5	580	8×11.5	620	10×12	780	10×16	910	16×25	1000	12.5×25	1200	16×31	1100												
1000	8×11.5	590	8×11.5	560	10×12	720	10×16	870	10×20	1180	16×25	1350	16×25	1350	18×31	1200												
2200	10×16	920	10×16	1090	10×20	1320	12.5×20	1500	16×25	1810	16×31	1980	16×31	1800														
3300	10×20	1200	10×20	1440	12.5×20	1600	16×25	2000	16×25	1990	18×31	2100	18×40	2600														
4700	12.5×20	1550	12.5×20	1680	12.5×25	2050	16×25	2120	16×36	2500	18×40	2800																
6800	12.5×25	1920	12.5×25	2150	16×25	2250	16×31	2440	18×40	2740																		
10000	16×25	2370	16×25	2270	16×31	2660	16×36	2900																				
15000	16×31	2550	16×36	2880	16×36	2950																						
22000	16×36	2900	18×36	3100																								
33000	18×40	3400																										

Symbol MICROS / MICROS Symbol

KE | **1.0** (seria / series; pojemność / capacity [μF]) / **50** (napięcie / voltage [V]) / **5x11** (wymiar / size [mm])

seria o pojemności / series of a capacity ≥ 10 000 μF

KEM | **10** (seria / series; pojemność / capacity 10 = 10 000 [μF]) / **10** (napięcie / voltage [V]) / **16x30** (wymiar / size [mm])

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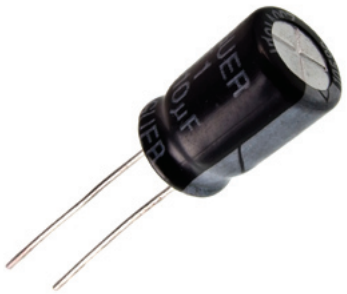
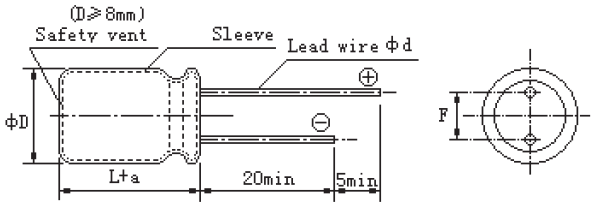
Kondensatory elektrolityczne, 105°C
Aluminium electrolytic capacitors, 105°C



- Mały rozmiar
- 105°C, 1000h
- Wysoka stabilność i niezawodność

- Small size
- 105°C, 1000h
- High stability and relability



mm

ΦD ±0.5	5	6.3	8	10	12.5 or 13	16	18
L	11	11	11.5	13, 16, 20	20, 25	25, 31, 36	31, 36, 40
F ±0.5	2.0	2.5	3.5	5.0		7.5	
Φd ±0.05	0.5		0.6			0.8	
a	1.5(V≤100); 2.0(V>100)					2.0	

SPECYFIKACJA / SPECIFICATION	RT1		
Zakres temperatur pracy Operating temperature range	-55°C~+105°C	-40°C~+105°C	-25°C~+105°C
Zakres napięć znamionowych Rated voltage range	6.3~100V DC	160~400V DC	450V DC
Zakres pojemności nominalnych Nominal capacitance range	0.47μF~33000μF		
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)		
Prąd upływu Leakage current	6.3~100V DC I≤0.01CV lub/or 3μA w zależności, które większe whichever is greater (po/after 2 min.)	160~450V DC CV≤1000 I = 0.1CV + 40μA (1min.) I = 0.03CV + 15μA (5min.)	CV>1000 I = 0.04CV + 100μA (1min.) I = 0.02CV + 25μA (5min.)

Współczynnik rozpraszania (120 Hz, 20°C) Dissipation factor (120 Hz, 20°C)	V	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	tgδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25	0.25	0.25
	Dla pojemności przekraczających 1000μF, należy dodać 0.02 dla każdego 1000μF For capacitance exceeding 1000μF, add 0.02 per increment of 1000μF														
Żywotność Lifetime	minimum 1000h w temp. 105°C, co odp. 4000h w temp. 85°C minimum 1000h at 105°C temp., which is equivalent to 4000h at 85°C														

Lista elementów / Parts listing

V / I / μF	6.3V		10V		16V		25V		35V		50V		63V		100V		160V		200V		250V		350V		400V		450V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.47											5×11	7			5×11	8					6.3×11	8	6.3×11	8				
1.0											5×11	13			5×11	15					6.3×11	16	6.3×11	16	6.3×11	16	6.3×11	15
2.2											5×11	20			5×11	21					6.3×11	30	6.3×11	25	8×11.5	31	8×11.5	20
3.3											5×11	25			5×11	30			6.3×11	36	6.3×11	30	8×11.5	30	8×11.5	34	10×12	33
4.7											5×11	32			5×11	35	6.3×11	43	6.3×11	40	8×11.5	45	8×11.5	45	10×12	42	10×12	35
10											5×11	47	5×11	48	5×11	60	8×11.5	77	8×11.5	57	10×12	90	10×16	95	10×16	64	10×20	37
22									5×11	64	5×11	70	5×11	80	6.3×11	98	10×12	92	10×16	105	10×16	105	12.5×20	175	12.5×20	140	12.5×25	100
33							5×11	68	5×11	77	5×11	94	6.3×11	100	8×11.5	140	10×16	125	10×20	140	10×20	140	12.5×25	220	16×25	170	16×25	125
47					5×11	80	5×11	84	5×11	100	6.3×11	115	6.3×11	140	8×11.5	185	10×20	150	10×20	195	12.5×20	190	16×25	260	16×25	200	16×31	155
100	5×11	96	5×11	105	5×11	130	5×11	135	6.3×11	170	8×11.5	200	8×11.5	230	10×16	290	12.5×25	320	16×25	340	16×25	310	18×31	370	18×36	310	18×40	200
220	5×11	160	5×11	165	6.3×11	220	6.3×11	240	8×11.5	300	10×12	360	10×16	390	12.5×20	560	16×31	410	16×36	580	18×36	485						
330	6.3×11	210	6.3×11	235	6.3×11	270	8×11.5	335	10×12	400	10×16	470	10×20	540	12.5×25	690	18×31	570	18×40	675								
470	6.3×11	275	6.3×11	295	8×11.5	375	8×11.5	440	10×12	525	10×20	600	12.5×20	700	16×25	880	18×40	855										
680	6.3×11	286	8×11.5	430	8×11.5	480	10×12	630	10×16	760	12.5×20	980	12.5×25	800	16×31	900												
1000	8×11.5	460	8×11.5	500	10×12	640	10×16	740	10×20	865	12.5×25	1060	16×25	1200	18×36	985												
2200	10×16	775	10×16	860	10×20	1050	12.5×20	1090	16×25	1370	16×31	1600	18×31	1400														
3300	10×20	985	10×20	1100	12.5×20	1300	16×25	1500	16×25	1680	18×36	1780																
4700	12.5×20	1150	12.5×20	1350	12.5×25	1650	16×25	1800	16×36	1870																		
6800	12.5×25	1480	16×25	1700	16×25	1900	16×36	1910	18×36	1920																		
10000	16×25	1700	16×25	1950	16×31	1950	18×36	2050																				
15000	16×31	2090	16×36	2090	18×36	2070																						
22000	18×31	2280	18×36	2180																								
33000	18×40	2350																										

Symbol MICROS / MICROS Symbol

KE | **1.0** / **50** / **5x11** | **t**

seria (series) | pojemność (capacity) [μF] | napięcie (voltage) [V] | wymiar (size) [mm]

seria o pojemności series of a capacity ≥ 10 000 μF

KEM | **10** / **10** / **16x30** | **t**

seria (series) | pojemność (capacity) 10 = 10 000 [μF] | napięcie (voltage) [V] | wymiar (size) [mm]

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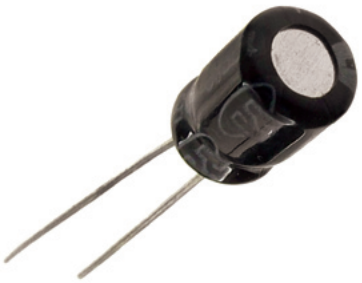
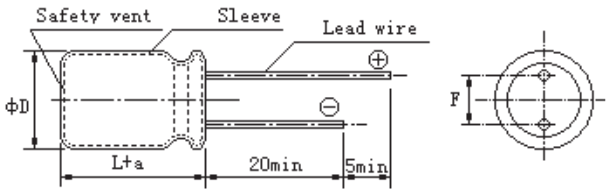


- Rozmiar miniaturowy
- 85°C lub 105°C, 1000h
- Wysoka stabilność i niezawodność
- Wysokość 7mm

- Miniature size
- 85°C or 105°C, 1000h
- High stability and relability
- 7mm height



mm

ΦD ±0.5	4	5	6.3	8
L	7	7	7	7
F ±0.5	1.5	2.0	2.5	3.5
Φd ±0.05	0.45			0.5
a	1.0			

SPECYFIKACJA / SPECIFICATION	SS1	ST1
Zakres temperatur pracy / Operating temperature range	-40°C~+85°C	-40°C~+105°C
Zakres napięć znamionowych / Rated voltage range	6.3~63V DC	
Zakres pojemności nominalnych / Nominal capacitance range	0.1μF~330μF	
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu / Leakage current	I≤0.01CV lub/or 3μA w zależności, które większe/whichever is greater	
Współczynnik rozpraszania (120 Hz, 20°C) / Dissipation factor (120 Hz, 20°C)	V: 6.3 / 10 / 16 / 25 / 35 / 50 / 63 tgδ: 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10 / 0.08	
Żywotność / Lifetime	minimum 1000h w temp. +85°C minimum 1000h at 85°C	minimum 1000h w temp.105°C, co odpowiada 4000h w temp. 85°C minimum 1000h at 105°C temp., which is equivalent to 4000h at 85°C

Lista elementów / Parts listing

V / μF \	6.3V		10V		16V		25V		35V		50V		63V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×7	1.3	4×7	1.3
0.22											4×7	3.0	4×7	3.0
0.33											4×7	4.4	4×7	4.4
0.47											4×7	6.3	4×7	6.3
1.0											4×7	12	4×7	12
2.2											4×7	16	4×7	16
3.3							4×7	18	4×7	18	4×7	19	4×7	21
4.7							4×7	21	4×7	22	4×7	24	5×7	26
10					4×7	28	4×7	31	4×7	30	5×7	42	6.3×7	45
22	4×7	34	4×7	38	4×7	42	5×7	55	5×7	55	6.3×7	64		
33	4×7	42	4×7	46	5×7	62	6.3×7	66	6.3×7	73		75		
47	4×7	50	5×7	66	5×7	73	6.3×7	80	6.3×7	95		85		
100	5×7	87	6.3×7	99	6.3×7	110		115		115				
220	6.3×7	133		165		145								
330	8×7	180		210										

Symbol MICROS / MICROS Symbol

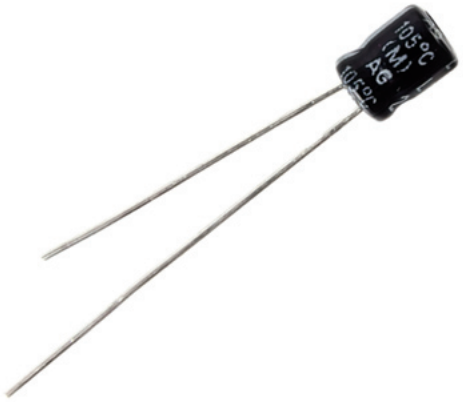
SS1: **KE** | **1.0** (pojemność / capacity [μF]) / **50** (napięcie / voltage [V]) / **4x7** (wymiar / size [mm])

ST1: **KE** | **1.0** (pojemność / capacity [μF]) / **50** (napięcie / voltage [V]) / **4x7** (wymiar / size [mm]) **t**

seria / series

Please take a look at our full offer at www.micros.com.pl

Kondensatory elektrolityczne, super-miniaturowe
Aluminium electrolytic capacitors, micro-size type

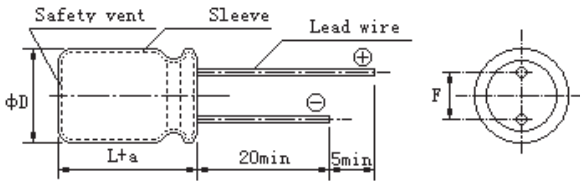


- Rozmiar miniaturowy
- 85°C lub 105°C, 1000h
- Wysoka stabilność i niezawodność
- Wysokość 5mm

- Miniature size
- 85°C or 105°C, 1000h
- High stability and relability
- 5mm height

Zastosowanie
- Źródła zasilania
- Stateczniki elektroniczne

Recommended applications
- Power source
- Electronic ballast



mm

ΦD ±0.5	4	5	6.3	8
L	5	5	5	5
F ±0.5	1.5	2.0	2.5	3.5 (2.5)
Φd ±0.05	0.45			
a	1.0			

SPECYFIKACJA / SPECIFICATION	MS1	MT1
Zakres temperatur pracy / Operating temperature range	-40°C~+85°C	-40°C~+105°C
Zakres napięć znamionowych / Rated voltage range	6.3~50V DC	
Zakres pojemności nominalnych / Nominal capacitance range	0.1μF~330μF	
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu / Leakage current	I≤0.01CV lub/or 3μA w zależności, które większe/whichever is greater	
Współczynnik rozpraszania (120 Hz, 20°C) / Dissipation factor (120 Hz, 20°C)	V: 6.3 / 10 / 16 / 25 / 35 / 50; tgδ: 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10	
Żywotność / Lifetime	minimum 1000h w temp. +85°C / minimum 1000h at +85°C temp.	minimum 1000h w temp.105°C, co odpowiada 4000h w temp. 85°C / minimum 1000h at 105°C temp., which is equivalent to 4000h at 85°C

Lista elementów / Parts listing

μF \ V	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×5	1.0
0.22											4×5	2.0
0.33											4×5	3.0
0.47											4×5	4.0
1.0											4×5	8.0
2.2											4×5	13
3.3											4×5	14
4.7					4×5	10	4×5	13	4×5	17	5×5	18
10	4×5	18	4×5	20	4×5	20	4×5 5×5	20 22	5×5	24	5×5	28
22	4×5	23	4×5	23	4×5 5×5	25 31	5×5	30	5×5 6.3×5	35 48	6.3×5 8×5	50 60
33	4×5	25	4×5 5×5	25 35	5×5	36	5×5 6.3×5	38 48	6.3×5 8×5	50 65	8×5	80
47	4×5 5×5	27 39	5×5 6.3×5	40 52	5×5 6.3×5	40 56	6.3×5	65	8×5	85		
100	5×5 6.3×5	42 66	6.3×5	85	6.3×5	86	8×5	120				
220	6.3×5	89	8×5	120	8×5	130						
330	8×5	130										

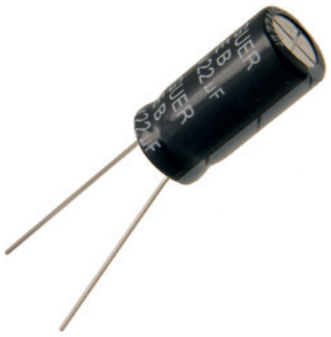
Symbol MICROS / MICROS Symbol

MS1: **KE** | **1.0** (seria / series; pojemność / capacity [μF]) / **50** (napięcie / voltage [V]) / **4x5** (wymiar / size [mm])

MT1: **KE** | **1.0** (seria / series; pojemność / capacity [μF]) / **50** (napięcie / voltage [V]) / **4x5** (wymiar / size [mm]) **t**

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory elektrolityczne 5000/8000h
Aluminium electrolytic capacitors 5000/8000h

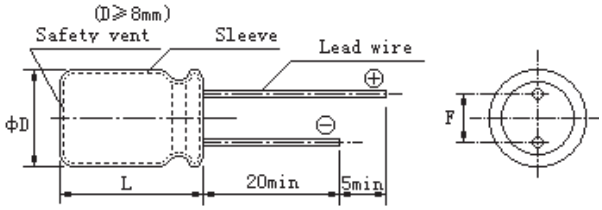


- Długa żywotność
- 105°C, 5000h lub 8000~10000h

- Long life time
- 105°C, 5000h or 8000~10000h

Zastosowanie
- Źródła zasilania
- Stateczniki elektroniczne

Recommended applications
- Power source
- Electronic ballast



mm

ΦD ±1.0	6.3	8	10	13	16	18	22
L ±2.0	12	12, 16	16, 20	21, 25	26, 31	26, 31, 36	31, 36
F ±0.5	2.5	3.5	5.0	5.0	7.5	7.5	10.0
Φd ±0.05	0.5	0.6	0.6	0.6	0.8	0.8	1.0

SPECYFIKACJA / SPECIFICATION	REB	REF
Zakres temperatur pracy / Operating temperature range	-25°C~+105°C	
Zakres napięć znamionowych / Rated voltage range	200~450V DC	
Zakres pojemności nominalnych / Nominal capacitance range	1μF~100μF	
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu (20°C) / Leakage current (20°C)	I≤0.02CV + 10μA (po/after 2 min.)	
Współczynnik rozpraszania (120 Hz, 20°C) / Dissipation factor (120 Hz, 20°C)	V: 200 / 250 / 350 / 400 / 450 tgδ: 0.1 / 0.1 / 0.12 / 0.12 / 0.16	
Żywotność / Lifetime	minimum 5000h w temp. 105°C, co odpowiada 20000h w temp. 85°C minimum 5000h at 105°C temp., which is equivalent to 20000h at 85°C	minimum 8-10kh w temp. 105°C, co odpowiada 32-40kh w temp. 85°C minimum 8-10kh at 105°C temp., which is equivalent to 32-40kh at 85°C

Lista elementów / Parts listing

REB

V / I / μF	200V ΦD×L	200V mA	250V ΦD×L	250V mA	350V ΦD×L	350V mA	400V ΦD×L	400V mA	450V ΦD×L	450V mA
1					6.3×12	60	8×12	62	8×12	72
1.2					6.3×12	65	8×12	70	8×12	78
1.5					6.3×12	70	8×12	80	8×12	85
1.8					8×12	88	8×12	88	8×16	90
2.2	6.3×12	55	6.3×12	70	8×12	952	8×16	96	8×16	105
2.7	6.3×12	68	6.3×12	75	8×12	100	8×16	108	8×16	118
3.3	6.3×12	80	8×12	85	8×16	110	8×16	115	10×16	130
4.7	8×12	125	8×12	98	8×16	118	10×16	125	10×16	140
5.6	8×12	140	8×12	105	10×16	145	10×16	135	10×20	158
6.8	8×16	165	8×16	110	10×16	170	10×20	165	10×20	205
8.2	8×16	200	8×16	125	10×20	200	10×20	220	13×21	248
10	10×16	245	10×16	260	10×20	260	13×21	280	13×21	300
15	10×16	270	10×16	290	13×21	320	13×21	310	13×25	330
22	10×20	300	10×20	330	13×25	400	13×25	365	16×26	400
33	13×21	360	13×21	390	16×26	445	16×26	420	18×31	480
47	13×25	480	13×25	450	16×31	498	18×26	510	18×31	600
68	16×26	600	16×26	500	18×31	820	18×36	560	22×31	750
82	16×26	675	18×26	580			22×31	610	22×36	900
100	16×31	950	18×31	630			22×36	780	22×36	1080

REF

V / I / μF	200V ΦD×L	200V mA	250V ΦD×L	250V mA	350V ΦD×L	350V mA	400V ΦD×L	400V mA	450V ΦD×L	450V mA
1					6.3×12	65	8×12	68	8×12	82
1.2					6.3×12	70	8×12	73	8×12	85
1.5					6.3×12	76	8×12	83	8×12	90
1.8					8×12	90	8×12	95	8×16	98
2.2	6.3×12	60	6.3×12	74	8×12	100	8×16	115	8×16	116
2.7	6.3×12	74	8×12	80	8×12	105	8×16	128	8×16	129
3.3	8×12	88	8×12	94	8×16	115	10×16	133	10×16	144
4.7	8×12	130	8×12	115	8×16	128	10×16	140	10×16	156
5.6	8×12	155	8×12	123	10×16	150	10×16	168	10×20	178
6.8	8×16	178	8×16	134	10×16	190	10×20	195	10×20	220
8.2	8×16	220	8×16	145	10×20	236	10×20	230	13×21	277
10	10×16	270	10×16	180	10×20	303	13×21	300	13×21	330
15	10×16	295	10×20	275	13×21	330	13×21	348	13×25	440
22	10×20	330	13×21	338	13×25	420	13×25	392	16×26	550
33	13×21	400	13×21	380	16×26	468	16×26	445	18×31	675
47	13×25	530	13×25	462	16×31	522	18×26	510	18×36	830
68	16×26	645	16×26	566	18×31	850	18×36	880	22×31	998
82	16×26	810	18×26	703			22×31	1100	22×36	
100	16×31	998	18×31	966			22×36	1350		

Symbol MICROS / MICROS Symbol

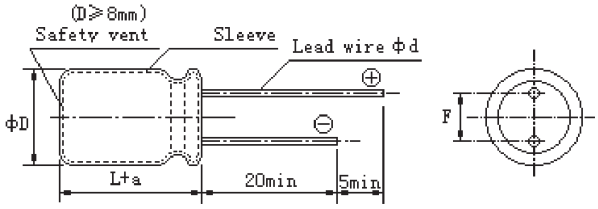
REB: **KER** | **1** | / | **400**
- KER: seria / series
- 1: pojemność / capacity [μF]
- 400: napięcie / voltage [V]

REF: **KER** | **1** | / | **400** | **H**
- KER: seria / series
- 1: pojemność / capacity [μF]
- 400: napięcie / voltage [V]

Kondensatory elektrolityczne bipolarne
Aluminium electrolytic capacitors, bipolar type

- Mały rozmiar
- 85°C, 1000ha
- Wysoka stabilność i niezawodność

- Small size
- 85°C, 1000h
- High stability and relability



mm

ΦD ±0.5	4	5	6.3	8
L ±1.0	5/7	5/7	5/7	5/7
F ±0.5	1.5	2.0	2.5	3.5
Φd ±0.05	0.45			0.45 (0.5)
a	1.0			

SPECYFIKACJA / SPECIFICATION	MBP	SBP
Zakres temperatur pracy Operating temperature range	-40°C~+85°C	
Zakres napięć znamionowych Rated voltage range	6.3~50V DC	
Zakres pojemności nominalnych Nominal capacitance range	0.1μF~100μF	
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu (20°C) Leakage current (20°C)	I≤0.03CV lub/or 10μA w zależności, które większe/whichever is greater	
Współczynnik rozpraszania (120 Hz, 20°C) Dissipation factor (120 Hz, 20°C)	V: 6.3 / 10 / 16 / 25 / 35 / 50 tgδ: 0.24 / 0.20 / 0.20 / 0.20 / 0.20 / 0.20 Dla pojemności przekraczających 1000μF, należy dodać 0.02 dla każdego 1000μF For capacitance exceeding 1000μF, add 0.02 per increment of 1000μF	
Żywotność Lifetime	minimum 1000h w temp. +85°C minimum 1000h at +85°C temp.	

Lista elementów / Parts listing

MBP

V / μF	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×5	1.5
0.22											4×5	2.5
0.33											4×5	4.5
0.47											4×5	5.5
1.0											4×5	10
2.2							4×5	14	4×5	15	5×5	15
3.3							5×5	18	5×5	20	5×5	20
4.7					4×5	20	5×5	21	5×5	22	6.3×5	28
10	4×5	20	4×5	25	5×5	25	6.3×5	30	6.3×5	33	6.3×5	40
22	5×5	29	5×5	30	6.3×5	39	8×5	42	8×5	45	8×5	50
33	6.3×5	38	6.3×5	43	8×5	52	8×5	56	8×5	58		
47	6.3×5	46	8×5	60	8×5	62						
100	8×5	66	8×5	66								

SBP

V / μF	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×7	1.5
0.22											4×7	2.5
0.33											4×7	4.5
0.47											4×7	5.5
1.0											4×7	10
2.2							4×7	14	4×7	15	5×7	15
3.3							5×7	18	5×7	20	5×7	20
4.7					4×7	20	5×7	21	5×7	22	6.3×7	28
10	4×7	20	4×7	25	5×7	25	6.3×7	30	6.3×7	33	6.3×7	40
22	5×7	29	5×7	30	6.3×7	39	8×7	42	8×7	45	8×7	50
33	6.3×7	38	6.3×7	43	8×7	52	8×7	56	8×7	58		
47	6.3×7	46	8×7	60	8×7	62						
100	8×7	66	8×7	66								

Symbol MICROS / MICROS Symbol

MBP: **KEB** | **0.1** / **50** / **4x5**

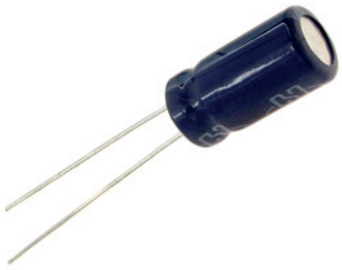
seria / series | pojemność / capacity [μF] | napięcie / voltage [V] | wymiar / size [mm]

SBP: **KEB** | **0.1** / **50** / **4x7**

seria / series | pojemność / capacity [μF] | napięcie / voltage [V] | wymiar / size [mm]

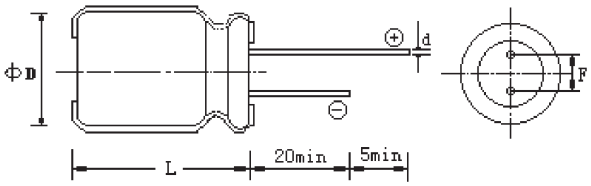
Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory elektrolityczne niskoimpedancyjne
Aluminium electrolytic capacitors, LOW E.S.R.



- Mały rozmiar
- 105°C, 1000h
- Wysoka stabilność i niezawodność

- Small size
- 105°C, 1000h
- High stability and relability



mm

D	±0.5			±1.0		
	5	6.3 lub/or 6	8	10	13	16
F ±0.5	2.0	2.5	3.5	5.0	5.0	7.5
L ±2.0	11	11	11.5, 14	14, 16, 20, 25	20, 25	25
d ±0.05	0.5	0.5	0.5 lub/or 0.6	0.6		0.8

SPECYFIKACJA / SPECIFICATION	RTE						
Zakres temperatur pracy Operating temperature range	-40°C~+105°C						
Zakres napięć znamionowych Rated voltage range	6.3~50V DC						
Zakres pojemności nominalnych Nominal capacitance range	10µF~3300µF						
Tolerancja pojemności Capacitance tolerance	±20%						
Prąd upływu Leakage current	I≤0.01CV lub/or 3µA (po/after 2 min.) w zależności, które większe/whichever is greater						
Współczynnik rozpraszania (120 Hz, 20°C) Dissipation factor (120 Hz, 20°C)	V	6.3	10	16	25	35	50
	tgδ	0.22	0.20	0.16	0.14	0.12	0.10
	Dla pojemności przekraczających 1000µF, należy dodać 0.02 dla każdego 1000µF For capacitance exceeding 1000µF, add 0.02 per increment of 1000µF						
Żywotność Lifetime	minimum 1000h w temp.105°C, co odp. 4000h w temp. 85°C minimum 1000h at 105°C temp., which is equivalent to 4000h at 85°C						

Lista elementów / Parts listing

V / µF	6.3V			10V			16V			25V			35V			50V		
	ΦD×L	mA	Z(Ω)	ΦD×L	mA	Z(Ω)	ΦD×L	mA	Z(Ω)	ΦD×L	mA	Z(Ω)	ΦD×L	mA	Z(Ω)	ΦD×L	mA	Z(Ω)
10										5×11	56	2.1	5×11	105	1.9	5×11	55	4.50
22																5×11	81	2.80
33										5×11	81	2.8	6.3×11	130	1.2	6.3×11	113	1.85
47							5×11	90	2.4	5×11	97	2.0	6.3×11	220	0.58	6.3×11	135	1.30
100				5×11	158	0.6	6.3×11	260	0.31	6.3×11	161	0.9	8×11.5	330	0.39	8×11.5	235	0.60
220				6.3×11	207	0.7	8×11.5	263	0.5	8×11.5	460	0.25	8×14	500	0.23	10×16	448	0.28
330				6.3×11	411	0.22	8×11.5	620	0.18	8×14	586	0.16	10×14	725	0.16	10×20	605	0.185
470	8×11.5	462	0.25	8×11.5	506	0.23	8×11.5 8×14	680 544	0.16 0.18	10×14	805	0.14	13×20	945	0.10	13×20	836	0.13
1000	8×11.5	650	0.13	8×14	826	0.11	10×16	1053	0.09	10×25	1352	0.08	13×25	1490	0.06	16×25	1511	0.06
2200	10×25	1059	0.07	13×20	1155	0.055	13×25	1480	0.05									
3300	10×25	1320	0.06	13×25	1593	0.042												

Symbol MICROS / MICROS Symbol

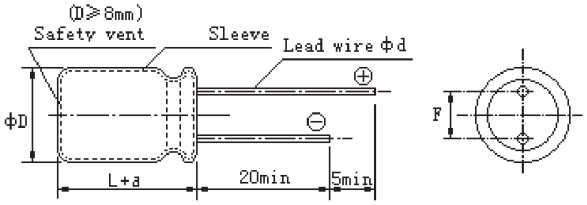
KEL **10** / **50** t

seria series	pojemność capacity [µF]	napięcie voltage [V]

Please take a look at our full offer at www.micros.com.pl

- Mały rozmiar
- 105°C, 3000-10000h
- Wysoka stabilność i niezawodność

- Small size
- 105°C, 3000-10000h
- High stability and relability



mm

ΦD ± 0.5	a: 1.5			a: 2.0		
	5	6.3	8	10	12.5 lub/or 13	16
L	11	11	12, 16	12, 16, 20	20, 25	25
F ±0.5	2.0	2.5	3.5	5.0		7.5
Φd ±0.05	0.5		0.6			0.8

SPECYFIKACJA / SPECIFICATION	RTZ								
Zakres temperatur pracy Operating temperature range	-40°C~+105°C								
Zakres napięć znamionowych Rated voltage range	6.3~100V DC								
Zakres pojemności nominalnych Nominal capacitance range	22μF~6800μF								
Tolerancja pojemności Capacitance tolerance	±20%								
Prąd upływu Leakage current	I≤0.01CV lub/or 3μA (po/after 2 min.) w zależności, które większe/whichever is greater								
Współczynnik rozpraszania (120 Hz, 20°C) Dissipation factor (120 Hz, 20°C)	V	6.3	10	16	25	35	50	63	100
	tgδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08
	Dla pojemności przekraczających 1000μF, należy dodać 0.02 dla każdego 1000μF For capacitance exceeding 1000μF, add 0.02 per increment of 1000μF								
Żywotność Lifetime	minimum 3000-10000h w temp.105°C, co odp. 12000-40000h w temp. 85°C minimum 3000-10000h at 105°C temp., which is equivalent to 12000-40000h at 85°C								

Lista elementów / Parts listing

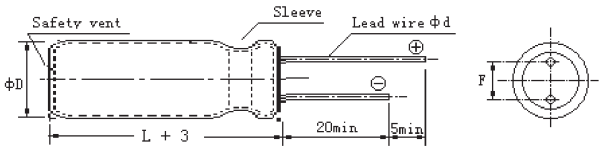
V / μF	6.3V			10V			16V			25V			35V			50V			63V			100V		
	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)	ΦD×L	I(mA)	Z(Ω)
22																5×11	100	1.50				6.3×11	230	1.2
33																5×11	160	0.75				8×12	235	0.63
47										5×11	210	0.58	5×11 6.3×11	210 280	0.58 0.30	6.3×11	180	0.35	6.3×11	120	1.0	10×12	288	0.43
100				5×11	210	0.58				6.3×11	340	0.22	6.3×11	340	0.22	8×12	550	0.19	8×16	330	0.42	10×25	531	0.20
150													8×12	640	0.13	10×12	750	0.15	10×16	360	0.31	12.5×20	690	0.16
220	5×11	230	0.55	6.3×11	340	0.22				8×12	640	0.13	8×16	870	0.087	10×16	990	0.10	10×25	531	0.20	16×20	1040	0.091
330	6.3×11	340	0.22	6.3×11	420	0.15	8×12	640	0.13	8×16	840	0.087	10×16	1210	0.060	10×25	1435	0.06	12.5×25	784	0.12			
470	6.3×11	380	0.20	8×12	640	0.13	8×16	840	0.087	10×16	1210	0.065	10×20	1400	0.046	12.5×20	1600	0.05	16×20	1040	0.095			
680	8×12	640	0.13	10×12	865	0.08	10×16	1210	0.060	10×20	1400	0.046												
1000	8×16	840	0.087	10×16	1210	0.06	10×20	1400	0.046	12.5×20	1900	0.035	12.5×25	2230	0.027	16×25	2200	0.032						
1500	10×20	1400	0.046	10×25	1650	0.042	12.5×20	1900	0.035	12.5×25	2230	0.027	12.5×35	2880	0.021									
2200	10×25	1650	0.042	12.5×20	1900	0.035	12.5×25	2230	0.027	12.5×35	2880	0.021												
2700							16×20	2530	0.027	16×25	2930	0.021												
3300	12.5×20	1900	0.035	12.5×25	2230	0.027	12.5×35	2880	0.022															
4700	12.5×30	2650	0.025	16×25	2880	0.025	16×25	2820	0.022															
6800	16×25	2930	0.023	16×25	2880	0.025																		

Symbol MICROS / MICROS Symbol

KELR | 22 | / | 100 | t

seria series	pojemność capacity [μF]	napięcie voltage [V]

Pełna oferta znajduje się na stronie www.micros.com.pl



mm

D ± 1.0	10 / 12.5	16 / 18
L	40/45/50	40/45/50
F ± 0.5	5.0	7.5
Φd ± 0.05	0.6	0.8

- 105°C, 10000h
- Wysoka stabilność i niezawodność

- 105°C, 10000h
- High stability and relability

SPECYFIKACJA / SPECIFICATION	RXZ		
Zakres temperatur pracy / Operating temperature range	-25°C~+105°C		
Zakres napięć znamionowych / Rated voltage range	200, 220, 250, 400, 450VDC		
Zakres pojemności nominalnych / Nominal capacitance range	22~560µF		
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)		
Prąd upływu / Leakage current	I≤0.01CV (po/after 2 min.)		
Współczynnik rozpraszania (120 Hz, 20°C) / Dissipation factor (120 Hz, 20°C)	V	200~400	450
	tgδ	0.15	0.20
Żywotność / Lifetime	min. 10000h w temp.105°C, co odp. 40000h w temp. 85°C min. 10000h at 105°C temp., which is eq. to 40000h at 85°C		

Lista elementów / Parts listing

V / µF	200V								220V								250V							
	Φ10	I~	Φ12.5	I~	Φ16	I~	Φ18	mA	Φ10	I~	Φ12.5	I~	Φ16	I~	Φ18	mA	Φ10	I~	Φ12.5	I~	Φ16	I~	Φ18	mA
68																	10×40	0.61						
82																	10×45	0.68						
100	10×40	0.63															10×50	0.79						
120	10×45	0.75							10×40	0.66									12.5×40	0.79				
150	10×50	0.83							10×45	0.75	12.5×40	0.86							12.5×45	0.92				
180			12.5×40	0.92					10×50	0.83	12.5×45	0.99							12.5×50	0.97				
220			12.5×45	1.09							12.5×50	1.08									16×40	1.27		
270			12.5×50	1.26	16×40	1.18							16×40	1.19							16×45	1.34	18×40	1.42
330					16×45	1.31							16×45	1.32	18×40	1.33					16×50	1.48	18×45	1.59
390					16×50	14.2	18×40	1.43					16×50	14.2	18×45	1.49							18×50	1.69
470							18×45	1.58							18×50	1.69								
560							18×50	1.77																

V / µF	400V								450V							
	Φ10	I~	Φ12.5	I~	Φ16	I~	Φ18	mA	Φ10	I~	Φ12.5	I~	Φ16	I~	Φ18	mA
22									10×40	0.31						
33									10×45	0.36						
39	10×40	0.40							10×50	0.41						
47	10×45	0.45									12.5×40	0.48				
56	10×50	0.52	12.5×40	0.50							12.5×45	0.53				
68			12.5×45	0.58							12.5×50	0.62				
82			12.5×50	0.65									16×40	0.68		
100					16×40	0.80							16×45	0.75		
120					16×45	0.87	18×40	0.91					16×50	0.83	18×40	0.85
150					16×50	0.92	18×45	1.04							18×45	0.95
180							18×50	1.11							18×50	1.05

Symbol MICROS / MICROS Symbol

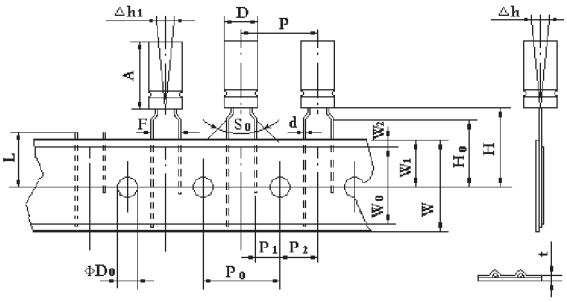
KEW **100** / **200**

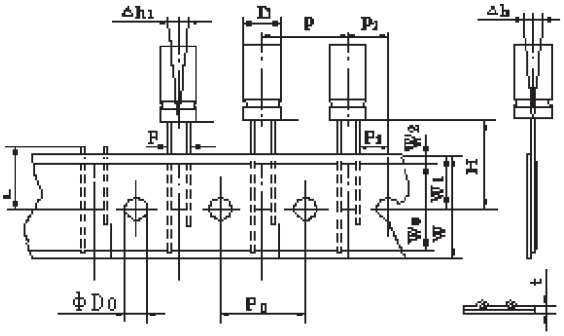
seria / series	pojemność / capacity [µF]	napięcie / voltage [V]

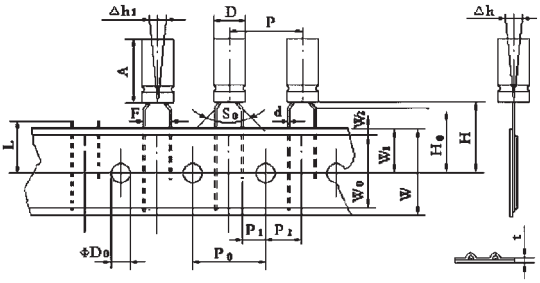
Na specjalne zamówienia produkcyjne, wszystkie typy kondensatorów elektrolitycznych o średnicy Φ4mm, Φ5mm, Φ6.3mm i Φ8mm mogą być dostarczone na taśmie wg poniższej specyfikacji:

For special production orders, all types of electrolytic capacitors with a diameters of Φ4mm, Φ5mm,Φ6.3mm and Φ8mm can be supplied on tape according to the following specifications:

F1	Rozmiar obudowy/Case size				Tol.
	4×5 4×7	5×5 5×7 5×11	6.3×5 6.3×7 6/6.3×11	8×5 8×7 8×11.5	
Φd	0.45	0.45 0.5 (5×11)	0.45 0.5 (6×11)	0.45 0.5 (8×7) 0.5 (8×11.5)	±0.05
p	12.7				±1.0
P_0	12.7				±0.3
P_1	3.85				±0.5
F	5.0				+0.6/-0.2
ΔH	0				±1.0
W	18.0				±0.5
W_0	12 min				--
W_1	9.0				±0.5
W_2	2.0 max				--
H	18.5 (17.5)*				±0.5
H_0	16.0				±0.5
D_0	4.0				±0.3
t	0.6				±0.2
Δh_1	0				±0.2







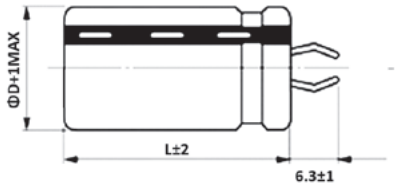
F2	Rozmiar obudowy/Case size					Tol.
	4×5 4×7	5×5 5×7 5×11	6.3×5 6.3×7 6/6.3×11	8×5 8×7 8×11.5	Φ10	
Φd	0.45	0.45 0.5 (5×11)	0.45 0.5 (6×11)	0.45 0.5 (8×7) 0.5 (8×11.5)	0.60	±0.05
p	12.7					±1.0
P_0	12.7					±0.3
P_1	5.6	5.35	5.1	4.6	3.85	±0.5
F	1.5	2.0	2.5	3.5	5.0	+0.6/-0.2
ΔH	0					±1.0
W	18.0					±0.5
W_0	12 min					--
W_1	9.0					±0.5
W_2	2.0 max					--
H	18.5 (17.5)*					±0.5
H_0	--					--
D_0	4.0					±0.3
t	0.6					±0.2
Δh_1	0					±0.2

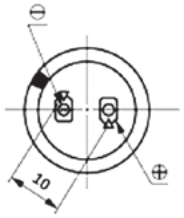
F3	Rozmiar obudowy/Case size			Tol.
	4×5 4×7	5×5 5×7 5×11	8×5 8×7	
Ref.	F3		F2	--
Φd	0.45	0.45 0.5 (5×11)	0.45 0.5 (8×7)	±0.05
p	12.7			±1.0
P_0	12.7			±0.3
P_1	5.1			±0.5
F	2.5			+0.6/-0.2
ΔH	0			±1.0
W	18.0			±0.5
W_0	12 min			--
W_1	9.0			±0.5
W_2	2.0 max			--
H	18.5 (17.5)*			±0.5
H_0	16.0		--	±0.5
D_0	4.0			±0.3
t	0.6			±0.2
Δh_1	0			±0.2

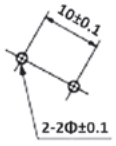
- 85°C, 2000h
- Wysoka stabilność i niezawodność
- Niski współczynnik E.S.R.

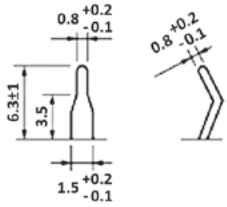
- 85°C, 2000h
- High stability and relability
- Low E.S.R

SPECYFIKACJA / SPECIFICATION	LSS	
Zakres temperatur pracy / Operating temperature range	-40°C~+85°C	-25°C~+85°C
Zakres napięć znamionowych / Rated voltage range	10~250V DC	315~450V DC
Zakres pojemności nominalnych / Nominal capacitance range	56µF~82000µF	
Tolerancja pojemności / Capacitance tolerance	±20% (120Hz, 20°C)	
Prąd upływu (20°C) / Leakage current (20°C)	$I \leq \sqrt[3]{CV}$ lub/or 1.5mA (po/after 5 min.) w zależności, które większe/whichever is greater	
Współczynnik rozpraszania (120 Hz, 20°C) / Dissipation factor (120 Hz, 20°C)	V: 10 / 16 / 25 / 35 / 50 / 63 / 63-100 tgδ: 0.80 / 0.60 / 0.50 / 0.40 / 0.30 / 0.20 / 0.20 ΦD: 160-250 / 315-450 22-30: 0.10 / 0.15 35: 0.15 / 0.15 Dla pojemności przekraczających 1000µF, należy dodać 0.02 dla każdego 1000µF / For capacitance exceeding 1000µF, add 0.02 per increment of 1000µF	
Żywotność / Lifetime	minimum 2000h w temp. 85°C / minimum 2000h at 85°C	minimum 2000h w temp. 105°C / minimum 2000h at 105°C









Lista elementów / Parts listing

V / ΦD×L	10V			16V			25V			35V			50V			63V			80V			100V		
	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR
22×20	8200	2.0	0.101	5600	1.9	0.118	3900	1.8	0.128	2700	1.6	0.154	1800	1.6	0.184	1500	1.7	0.166	1000	1.5	0.249	560	1.3	0.444
22×25	12000	2.5	0.069	8200	2.4	0.081	5600	2.3	0.089	3900	2.1	0.106	2700	2.1	0.123	2200	2.2	0.113	1500	1.9	0.166	820	1.7	0.303
22×30	15000	3.0	0.055	12000	3.0	0.055	8200	2.8	0.061	4700	2.4	0.088	3900	2.6	0.085	2700	2.5	0.092	1800	2.2	0.138	1200	2.1	0.207
22×35	22000	3.7	0.038	15000	3.4	0.044	10000	3.2	0.050	6800	2.9	0.061	4700	3.1	0.071	3300	2.9	0.075	2200	2.5	0.113	1500	2.5	0.166
22×40				18000	3.9	0.037	12000	3.7	0.041	8200	3.3	0.051	5600	3.4	0.059	3900	3.3	0.064	2700	2.8	0.092	1800	2.8	0.138
22×45	27000	4.3	0.031													4700	3.7	0.053	3300	3.2	0.075	2200	3.2	0.113
22×50	33000	4.9	0.025	22000	4.5	0.030	15000	4.3	0.033	10000	3.9	0.041	6800	3.9	0.049	5600	4.1	0.044	3900	3.6	0.064			
25×20	12000	2.5	0.069	8200	2.4	0.081	5600	2.2	0.089	3900	2.0	0.106	2700	2.1	0.123	1800	2.0	0.138	1200	1.7	0.207	8200	1.7	0.303
25×25	18000	3.2	0.046	12000	2.9	0.055	8200	2.8	0.061	5600	2.6	0.074	3900	2.6	0.085	2700	2.0	0.092	1800	2.2	0.138	1200	2.1	0.207
25×30	22000	3.7	0.038	15000	3.4	0.044	10000	3.2	0.050	6800	2.9	0.061	4700	3.0	0.071	3900	3.2	0.064	2200	2.5	0.113	1500	2.5	0.166
25×35	27000	4.2	0.031	18000	3.9	0.037	12000	3.7	0.041	8200	3.3	0.051	5600	3.4	0.059	4700	3.6	0.053	3300	3.1	0.075	1800	2.8	0.138
25×40	33000	4.8	0.025	22000	4.4	0.030	15000	4.2	0.033	10000	3.8	0.041	6800	3.8	0.049	5600	4.0	0.044	3900	3.5	0.064	2200	3.2	0.113
25×45	39000	5.4	0.021	27000	5.0	0.025	18000	4.7	0.028	12000	4.3	0.035	8200	4.3	0.040	6800	4.6	0.037				2700	2.9	0.092
25×50	47000	6.0	0.018				22000	5.4	0.023	15000	4.9	0.028	10000	4.9	0.033				4700	4.0	0.053	3300	4.1	0.075
30×20	18000	3.3	0.046	12000	3.0	0.055	8200	2.9	0.061	5600	2.6	0.074	3900	2.7	0.085	2700	2.6	0.092	1800	2.2	0.138	1200	2.2	0.207
30×25	28000	4.2	0.031	18000	3.9	0.037	12000	3.7	0.041	8200	3.3	0.051	5600	3.4	0.059	3900	3.3	0.064	2700	2.9	0.092	1800	2.8	0.138
30×30	33000	4.9	0.025	22000	4.4	0.030	15000	4.3	0.033	10000	3.8	0.041	6800	3.9	0.049	5600	4.1	0.044	3900	3.6	0.064	2200	3.2	0.113
30×35	39000	5.5	0.021	27000	5.1	0.025	18000	4.8	0.028	12000	4.3	0.035	8200	4.4	0.040	6800	4.6	0.037	4700	4.0	0.053	2700	3.7	0.092
30×40	47000	6.1	0.018	33000	5.8	0.020	22000	5.5	0.023	15000	5.0	0.028	10000	5.0	0.033	8200	5.2	0.030	5600	4.5	0.044	3300	4.2	0.075
30×45	56000	6.9	0.015	39000	6.4	0.017	27000	6.2	0.018	18000	5.6	0.023	12000	5.6	0.028	10000	5.9	0.025	6800	5.1	0.037	3900	4.7	0.064
30×50	68000	7.7	0.012	47000	7.2	0.014	33000	7.0	0.015	22000	6.3	0.019	15000	6.4	0.022							4700	5.2	0.053
35×20	22000	3.9	0.038	15000	3.7	0.044	10000	3.5	0.050	6800	3.1	0.061	4700	3.2	0.071	3900	3.4	0.064	2700	3.0	0.092	1500	2.7	0.166
35×25	33000	5.0	0.025	22000	4.6	0.030	15000	4.4	0.033	10000	4.0	0.041	6800	4.0	0.049	5600	4.2	0.044	3900	3.7	0.064	2200	3.4	0.113
35×30	47000	6.2	0.018	33000	5.8	0.020	22000	5.5	0.023	15000	5.0	0.028	10000	5.0	0.033	6800	4.8	0.037	4700	4.2	0.053	3300	4.3	0.075
35×35	56000	7.0	0.015	39000	6.5	0.017	27000	6.2	0.018	18000	5.7	0.023	12000	5.7	0.028	8200	5.5	0.030	5600	4.7	0.044	3900	4.8	0.064
35×40	68000	7.9	0.012	47000	7.4	0.014	33000	7.2	0.015	22000	6.4	0.019	15000	6.5	0.022	10000	6.2	0.025	6800	5.3	0.037	4700	5.4	0.053
35×45	82000	8.9	0.010	56000	8.2	0.012	39000	8.0	0.013				18000	7.3	0.018	12000	6.9	0.021	8200	6.0	0.030	5600	6.0	0.044
35×50										27000	7.4	0.015				15000	7.9	0.017	10000	6.8	0.025			

V / ΦD×L	160V			180V			200V			250V			315V			350V			400V			450V		
	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR
22×20	270	1.2	0.614	220	1.1	0.754	180	1.0	0.922	150	0.94	1.106	100	0.78	2.488	68	0.61	3.659	56	0.54	4.443	47	0.49	5.294
22×25	390	1.5	0.425	330	1.4	0.503	270	1.3	0.614	220	1.2	0.754	150	1.0	1.659	100	0.78	2.488	82	0.69	3.034	6380	0.62	3.659
22×30	560	1.9	0.296	470	1.8	0.353	390	1.6	0.425	270	1.4	0.614	180	1.1	1.382	150	1.0	1.659	120	0.86	2.073	82	0.71	3.034
22×35	680	2.2	0.244	560	2.0	0.296	470	1.9	0.353	330	1.6	0.503	220	1.3	1.131	180	1.1	1.382	150	1.0	1.659	100	0.82	2.488
22×40	820	2.5	0.202	680	2.3	0.244	560	2.1	0.296	390	1.8	0.425	270	1.5	0.922	220	1.3	1.131	180	1.1	1.382	120	0.92	2.073
22×45				820	2.6	0.202	680	2.4	0.244	470	2.0	0.353	330	1.7	0.754				220	1.3	1.131	150	1.1	1.659
22×50	1000	2.9	0.166				820	2.6	0.202	560	2.2	0.296				270	1.5	0.922				180	1.2	1.382
25×20	390	1.5	0.425	330	1.4	0.503	270	1.3	0.614	180	1.1	0.922	120	0.88	2.073	100	0.77	1.488	82	0.69	3.034	56	0.57	4.443
25×25	560	1.9	0.296	470	1.8	0.353	390	1.6	0.425	270	1.4	0.614	180	1.1	1.382	150	0.99	1.659	120	0.87	2.073	82	0.72	3.034
25×30	680	2.2	0.244	560	2.0	0.296	560	2.0	0.296	390	1.7	0.425	270	1.4	0.922	180	1.1	1.382	150	1.0	1.659	120	0.91	2.073
25×35	820	2.5	0.202	680	2.3	0.244	680	2.3	0.244	470	1.0	0.353	330	1.7	0.754	220	1.3	1.131	180	1.1	1.382	150	1.0	1.659
25×40	1000	2.8	0.166	820	2.6	0.202	820	2.6	0.202	560	2.2	0.296	390	1.8	0.638	270	1.5	0.922	220	1.3	1.131	180	1.2	1.382
25×45	1200	3.2	0.138	1000	2.9	0.166				680	2.5	0.244				330	1.7	0.754	270	1.5	0.922			
25×50	1500	3.6	0.111	1200	3.3	0.138	1000	3.0	0.166				470	2.1	0.529	390	1.9	0.638	330	1.7	0.754	220	1.4	1.131
30×20	560	2.0	0.296	470	1.8	0.353	390	1.7	0.425	270	1.4	0.614	180	1.2	1.382	150	1.0	1.659	120	0.93	2.073	82	0.77	3.034
30×25	820	2.5	0.202	680	2.3	0.244	560	2.1	0.296	390	1.8	0.425	270	1.5	0.922	220	1.3	1.131	180	1.2	1.382	120	0.97	2.073
30×30	1000	2.9	0.166	820	2.6	0.202	820	2.7	0.202	560	2.3	0.296	390	1.9	0.638	270	1.5	0.922	220	1.4	1.131	180	1.2	1.382
30×35	1200	3.3	0.138	1200	3.3	0.138	1000	3.0	0.166	680	2.6	0.244	470	2.1	0.529	330	1.7	0.754	270	1.6	0.922	220	1.4	1.131
30×40	1500	3.7	0.111				1200	3.4	0.138	820	2.9	0.202	560	2.4	0.444	390	1.9	0.638	330	1.8	0.754	270	1.6	0.922
30×45	1800	4.2	0.092	1500	3.9	0.111				1000	3.3	0.166	680	2.7	0.366	470	2.1	0.529	390	2.0	0.638			
30×50	2200	4.7	0.075	1800	4.3	0.092	1500	4.0	0.111	1200	3.7	0.138				560	2.4	0.444	470	2.2	0.529	330	1.8	0.754
35×20	680	2.3	0.366	560	2.1	0.444	560	2.1	0.444	390	1.8	0.638	270	1.5	0.922	180	1.2	1.382	150	1.2	1.659	120	1.0	2.073
35×25	1000	2.9	0.249	820	2.6	0.303	820	2.7	0.303	560	2.3	0.444	390	1.9	0.638	270	1.6	0.922	220	1.5	1.131	180	1.3	1.382
35×30	1500	3.6	0.166	1200	3.3	0.207	1000	3.0	0.249	680	2.6	0.366	470	2.2	0.529	390	1.9	0.638	330	1.8	0.754	220	1.5	1.131
35×35	1800	4.1	0.138	1500	3.8	0.166	1200	3.4	0.207	820	2.9	0.303	560	2.5	0.444	470	2.2	0.529	390	2.1	0.638	270	1.7	0.922
35×40	2200	4.7	0.113	1800	4.3	0.138	1500	3.9	0.166	1000	3.3	0.249	680	2.8	0.366	560	2.5	0.444	470	2.3	0.529	330	1.9	0.754
35×45				2200	4.8	0.113	1800	4.4	0.138	1200	3.7	0.207	820	3.1	0.303	680	2.8	0.366	560	2.6	0.444	390	2.2	0.638
35×50	2700	5.4	0.092				2200	5.0	0.113	1500	4.2	0.166	1000	3.	0.249				680	2.9	0.366	470	2.4	0.529

Symbol MICROS / MICROS Symbol

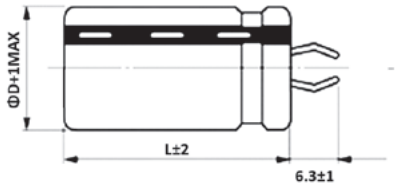
KE	2200	/	50	/	22x25	LP
seria series	pojemność capacity [µF]		napięcie voltage [V]		wymiar size [mm]	

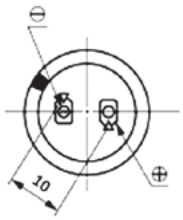
- 105°C, 2000h
- Wysoka stabilność i niezawodność
- 105°C, 2000h
- High stability and relability

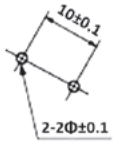
SPECYFIKACJA / SPECIFICATION	LHS	
Zakres temperatur pracy / Operating temperature range	-40°C~+105°C	-25°C~+105°C
Zakres napięć znamionowych / Rated voltage range	16~100V DC	160~450V DC
Zakres pojemności nominalnych / Nominal capacitance range	56µF~47000µF	
Tolerancja pojemności / Capacitance tolerance	±20% (120Hz, 20°C)	
Prąd upływu (20°C) / Leakage current (20°C)	$I \leq \sqrt[3]{CV}$ lub/or 1.5mA (po/after 5 min.) w zależności, które większe/whichever is greater	

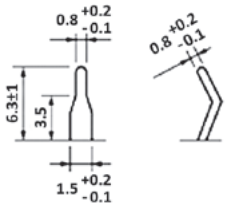
Współczynnik rozpraszania (120 Hz, 20°C) / Dissipation factor (120 Hz, 20°C)	V	16	25	35	50	63-100	160-250	400-450
	tgδ	0.50	0.40	0.35	0.30	0.20	0.15	0.20
	Dla pojemności przekraczających 1000µF, należy dodać 0.02 dla każdego 1000µF / For capacitance exceeding 1000µF, add 0.02 per increment of 1000µF							

Żywotność / Lifetime	minimum 8000h w temp. 85°C / minimum 8000h at 85°C	minimum 2000h w temp. 105°C / minimum 2000h at 105°C









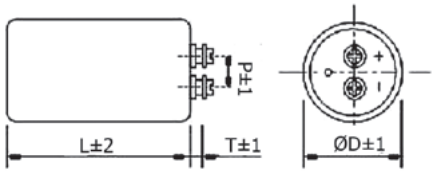
Lista elementów / Parts listing

V / ΦD×L	16V			25V			35V			50V			63V			80V			100V		
	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR
22×25	6800	1.60	0.122	4700	1.55	0.141	3300	1.43	0.176	1800	1.31	0.184	1200	1.25	0.207	820	1.11	0.303	560	1.07	0.444
22×30	10000	1.99	0.083	6800	1.91	0.098	3900	1.65	0.149	2700	1.70	0.123	1800	1.52	0.138	1200	1.39	0.207	820	1.35	0.303
22×35	12000	2.28	0.069	8200	2.14	0.081	5600	2.02	0.104	3300	1.98	0.101	2200	1.73	0.113	1500	1.61	0.166	1000	1.54	0.249
22×40	15000	2.64	0.055	10000	2.40	0.066	6800	2.28	0.085	3900	2.25	0.085	2700	1.97	0.092	1800	1.83	0.138	1200	1.74	0.207
22×45	18000	2.98	0.046	12000	2.69	0.055				4700	2.56	0.071				2200	2.09	0.113	1500	1.99	0.166
22×50							8200	2.67	0.071	5600	2.89	0.059	3300	2.32	0.075						
25×25	10000	1.99	0.083	6800	1.91	0.098	4700	1.78	0.124	2700	1.70	0.123	1800	1.52	0.138	1200	1.39	0.207	820	1.35	0.303
25×30	12000	2.30	0.069	8200	2.16	0.081	5600	2.04	0.104	3300	2.00	0.101	2200	1.75	0.113	1500	1.62	0.166	1000	1.56	0.249
25×35	15000	2.68	0.055	10000	2.44	0.066	6800	2.31	0.085	3900	2.28	0.085	2700	1.99	0.092	2200	2.01	0.113	1200	1.76	0.207
25×40	18000	3.04	0.046	12000	2.74	0.055	8200	2.60	0.071	5600	2.81	0.059	3300	2.27	0.075				1500	2.03	0.166
25×45	22000	3.40	0.038	15000	3.15	0.044	10000	2.92	0.058				3900	2.54	0.064	2700	2.43	0.092	1800	2.28	0.138
25×50	27000	3.81	0.031	18000	3.54	0.037	12000	3.26	0.048	6800	3.37	0.049	4700	2.88	0.053	3300	2.76	0.075	2200	2.57	0.113
30×25	12000	2.38	0.069	8200	2.25	0.081	5600	2.12	0.104	3900	2.22	0.085	2700	1.93	0.092	1800	1.81	0.138	1200	1.71	0.207
30×30	18000	3.00	0.046	12000	2.70	0.055	8200	2.56	0.071	4700	2.58	0.071	3300	2.24	0.075	2200	2.10	0.113	1500	2.00	0.166
30×35	22000	3.39	0.038	15000	3.13	0.044	10000	2.92	0.058	5600	2.95	0.059	3900	2.55	0.064	2700	2.43	0.092	1800	2.27	0.138
30×40	27000	3.83	0.031	18000	3.54	0.037	12000	3.28	0.048	6800	3.39	0.049	4700	2.90	0.053	3300	2.78	0.075	2200	2.59	0.113
30×45	33000	4.30	0.025	22000	4.24	0.030	15000	3.74	0.039	8200	3.71	0.040	5600	3.28	0.044	3900	3.12	0.064	2700	2.94	0.092
30×50	39000	4.74	0.021							10000	4.09	0.033	6800	3.73	0.037	4700	3.56	0.053	3300	3.32	0.075
35×25	18000	3.10	0.046	12000	2.80	0.055	8200	2.78	0.071	4700	2.67	0.071	3300	2.41	0.075	2200	2.17	0.113	1500	2.07	0.166
35×30	27000	3.74	0.031	15000	3.22	0.044	12000	3.20	0.048	6800	3.31	0.049	4700	2.83	0.053	3300	2.71	0.075	2200	2.52	0.113
35×35	33000	4.24	0.025	22000	3.96	0.030	15000	3.69	0.039	8200	3.66	0.040	5600	3.24	0.044	3900	3.07	0.064	2700	2.90	0.092
35×40	39000	4.72	0.021				18000	4.16	0.032	10000	4.07	0.033	6800	3.71	0.037	4700	3.50	0.053	3300	3.31	0.075
35×45	47000	5.27	0.018	27000	4.75	0.025				12000	4.50	0.028	8200	4.16	0.030	5600	3.87	0.044	3900	3.69	0.064
35×50				33000	5.39	0.020	22000	4.92	0.026				10000	4.69	0.025	6800	4.19	0.037	4700	4.14	0.053

V / ΦD×L	160V			180V			200V			250V			400V			450V		
	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR	µF	I ~	ESR
22×25	330	1.16	0.754	270	1.08	0.922	220	1.08	1.131	180	0.94	1.382	68	0.47	4.879	56	0.47	5.924
22×30	390	1.43	0.638	330	1.30	0.754	330	1.30	0.754	220	1.10	1.131	82	0.56	4.046	68	0.56	4.879
22×35	470	1.52	0.529	470	1.50	0.529	390	1.41	0.638	270	1.13	0.922	120	0.64	2.765	82	0.64	4.046
22×40	560	1.62	0.444	560	1.62	0.444	470	1.50	0.529	330	1.20	0.754	150	0.70	2.212	100	0.70	3.317
22×45	680	1.70	0.366	0			560	1.58	0.444	390	1.26	0.638				120	0.73	2.765
22×50	820	1.81	0.303	680	1.76	0.366	680	1.68	0.366	470	1.37	0.529	180	0.78	1.843	150	0.78	2.212
25×25	470	1.55	0.529	390	1.35	0.638	330	1.35	0.754	220	1.15	1.131	82	0.65	4.046	68	0.65	4.879
25×30	560	1.73	0.444	470	1.62	0.529	470	1.47	0.529	330	1.30	0.754	120	0.70	2.765	100	0.70	3.317
25×35	680	1.81	0.366	560	1.69	0.444	560	1.65	0.444	390	1.41	0.638	150	0.73	2.212	120	0.73	2.765
25×40	820	1.98	0.303	680	1.72	0.366	680	1.80	0.366	470	1.52	0.529	180	0.82	1.843	150	0.82	2.212
25×45	1000	2.04	0.249	820	1.78	0.303				560	1.59	0.444	220	0.87	1.508	180	0.87	1.843
25×50	1200	2.12	0.207	1000	1.91	0.249	820	1.87	0.303	680	1.66	0.366	270	0.94	1.229	220	0.94	1.508
30×25	680	1.82	0.366	560	1.67	0.444	470	1.56	0.529	330	1.30	0.754	120	0.78	2.765	100	0.78	3.317
30×30	820	1.98	0.303	680	1.74	0.366	680	1.82	0.366	470	1.36	0.529	180	0.83	1.843	150	0.83	2.212
30×35	1000	2.14	0.249	820	1.85	0.303	820	1.99	0.303	560	1.57	0.444	220	0.86	1.508	180	0.83	1.843
30×40	1200	2.22	0.207	1000	2.01	0.249				680	1.76	0.366	270	0.95	1.229	220	0.95	1.508
30×45	1500	2.46	0.166	1200	2.19	0.207	1000	2.17	0.249	820	1.83	0.303	330	1.11	1.005	270	1.11	1.229
30×50				1500	2.36	0.166	1200	2.22	0.207	1000	1.87	0.249	390	1.15	0.851	330	1.15	1.005
35×25	820	1.93	0.303	680	1.92	0.366	680	1.96	0.366	470	1.40	0.529	180	0.86	1.843	150	0.86	2.212
35×30	1200	2.40	0.249	1000	2.16	0.249	820	2.07	0.303	560	1.56	0.444	270	0.91	1.229	220	0.91	1.508
35×35	1500	2.53	0.166	1200	2.34	0.207	1000	2.22	0.249	820	1.82	0.303	330	1.13	1.005	270	1.13	1.229
35×40	0-			1500	2.56	0.166	1200	2.42	0.207	1000	1.9	0.249	390	1.26	0.851	330	1.26	1.005
35×45	1800	2.98	0.138	1800	2.67	0.138	1500	2.59	0.166	1200	2.10	0.207	470	1.31	0.706	390	1.31	0.851
35×50	2200	3.10	0.113	0			1800	2.70	0.138				560	1.50	0.592	470	1.50	0.706

Symbol MICROS / MICROS Symbol

KE	1500	/	100	/	25x30	Lt
seria series	pojemność capacity [µF]		napięcie voltage [V]		wymiar size [mm]	



mm

ΦD	P	S	T
36	12.7	M5x10	7.0
51	22	M5x10	5.5
64	28	M5x10	5.5
77	32	M5x10	5.0

- 85°C, 2000h
- Wysoka stabilność i niezawodność

- 85°C, 2000h
- High stability and relability

SPECYFIKACJA / SPECIFICATION	FST70
Zakres temperatur pracy Operating temperature range	-25°C~+85°C
Zakres napięć znamionowych Rated voltage range	6.3~250V DC
Zakres pojemności nominalnych Nominal capacitance range	1000µF~5000000µF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	I≤0.01$C_R U_R$ lub/or 5mA (po/after 2 min.) w zależności, które mniejsze/whichever is smaller
Żywotność Lifetime	minimum 2000h w temp. +85°C minimum 2000h at 85°C temp.

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [µF]	Case Size ΦD×L [mm]	Tan δ 20°C [120Hz]	Ripple current 40°C 120HZ [A rms]	ESR (typ.) 20°C 100Hz [mΩ]	Z max 20°C 10KHz [mΩ]	ESL (typ.) [nH]
6.3	47000	36×53	1.00	13.4	47	40	18
	68000	36×65	1.20	14.8	33	30	18
	100000	36×83	1.20	19.7	22	22	18
	150000	51×83	1.40	25.6	15	16	21
	220000	51×100	1.40	33.5	11	12	21
	330000	64×100	1.50	43.6	8	9	22
	470000	64×121	1.80	50.8	7	8	22
	680000	77×121	2.90	54.4	5	7	24
10	33000	36×83	0.90	11.9	25	24	18
	47000	36×65	0.90	15.2	18	19	18
	68000	36×83	1.20	20.3	13	14	18
	100000	36×121	1.20	25.0	11	12	18
	150000	51×123	1.40	27.6	7	7	21
	220000	51×121	1.50	37.6	5	6	21
	330000	64×121	1.80	46.5	5	6	22
	470000	77×121	2.30	52.0	4	6	24
16	22000	36×53	0.80	11.2	25	26	18
	33000	36×65	0.80	14.8	17	18	18
	47000	36×83	0.80	19.6	12	13	18
	68000	36×121	1.10	27.7	11	12	18
	100000	51×83	1.10	29.4	8	8	21
	150000	51×121	1.20	34.0	5	6	21
	220000	64×100	1.40	39.7	4	6	22
	330000	77×121	1.80	49.2	4	6	24
	470000	77×144	1.80	53.8	4	5	24
	680000	77×155	1.80	58.2	3	5	24
	1000000	77×195	1.80	64.8	3	4	24
	1500000	77×218	1.90	66.1	2	4	24
	2200000	77×260	2.00	68.5	2	3	24
	3300000	90×196	2.80	72.7	2	3	24
	4000000	101×237	3.00	78.9	2	3	24
	5000000	101×260	3.00	82.7	2	3	24
25	22000	36×65	0.50	12.1	22	23	18
	33000	36×83	0.90	14.2	15	16	18
	47000	36×121	0.90	19.8	10	11	18
	68000	51×100	0.90	25.1	7	8	21
	100000	51×121	0.90	28.5	6	6	21
	150000	64×100	1.20	34.7	5	6	22
	220000	64×144	1.20	48.9	4	5	22
	330000	77×144	1.40	52.7	4	5	24
35	10000	36×53	0.40	9.6	29	31	18
	15000	36×65	0.45	10.7	19	20	18
	22000	36×83	0.45	13.4	14	15	18
	330000	36×121	0.50	19.4	12	13	18
	47000	51×83	0.50	22.5	8	9	21
	68000	51×100	0.70	27.6	7	8	21
	100000	64×100	1.00	29.5	6	7	22
	150000	64×144	1.00	41.4	5	7	22
	220000	77×144	1.20	46.8	5	7	24

Rated Voltage I [V]	Capacitance [µF]	Case Size ΦD×L [mm]	Tan δ 20°C [120Hz]	Ripple current 40°C 120HZ [A rms]	ESR (typ.) 20°C 100Hz [mΩ]	Z max 20°C 10KHz [mΩ]	ESL (typ.) [nH]
50	6800	36×53	0.35	8.8	44	39	18
	10000	36×65	0.35	11.6	30	28	18
	15000	36×83	0.35	12.7	20	20	18
	22000	36×121	0.40	18.2	14	15	18
	33000	51×83	0.40	20.3	13	14	21
	47000	51×100	0. 50	25.9	11	12	21
	68000	64×100	0.70	32.2	8	9	22
	100000	64×144	0.70	36.8	6	7	22
	150000	77×144	0.90	37.8	5	7	24
63	6800	36×53	0.20	10.2	38	35	18
	10000	36×83	0.30	12.8	28	28	18
	15000	36×100	0.35	15.1	21	22	18
	22000	51×83	0.40	20.9	13	14	21
	33000	51×100	0.40	23.6	10	11	21
	47000	64×100	0.40	32.1	8	9	22
	68000	64×144	0. 50	37.2	7	8	22
	100000	77×144	0.70	41.1	7	8	24
80	4700	36×53	0.15	10.4	32	30	18
	6800	36×83	0.22	12.1	22	23	18
	10000	36×100	0.22	16.0	15	16	18
	15000	51×83	0.30	20.7	10	11	21
	22000	51×100	0.30	23.5	9	10	21
	33000	64×100	0.35	28.5	7	7	22
	47000	64×144	0.35	39.0	6	7	22
	68000	77×144	0.40	45.3	4	7	24
100	3300	36×53	0.15	8.7	34	32	18
	4700	36×83	0.15	12.4	24	24	18
	6800	36×100	0.20	13.2	19	20	18
	10000	51×83	0.20	16.9	13	14	21
	15000	51×121	0.20	24.1	11	12	21
	22000	64×100	0.20	25.9	8	9	22
	33000	64×144	0.25	33.0	6	7	22
	47000	77×144	0.30	37.6	5	7	24
160	1500	36×83	0.25	6.9	87	80	18
	2200	36×100	0.25	9.2	59	53	18
	3300	51×83	0.25	12.0	40	35	21
	4700	51×100	0.25	15.3	30	25	21
	6800	64×100	0.25	20.4	22	23	22
	10000	64×121	0.25	26.5	15	16	22
	15000	77×121	0.25	34.4	14	14	24
200	1000	36×65	0.25	5.2	120	100	18
	1500	36×83	0.25	6.9	100	85	18
	2200	36×121	0.25	9.9	68	60	18
	3300	51×83	0.25	12.0	45	35	21
	4700	51×121	0.25	16.6	31	27	21
	6800	64×121	0.25	21.9	21	20	22
	10000	77×121	0.25	28.1	14	14	24
250	1000	36×83	0.25	5.6	84	70	18
	1500	36×121	0.25	8.1	56	50	18
	2200	51×83	0.25	9.9	50	45	21
	3300	51×121	0.25	13.9	36	35	21
	4700	64×100	0.25	16.9	25	23	22
	6800	64×144	0.25	23.5	18	18	22
	10000	77×144	0.25	30.0	13	13	24

Symbol MICROS / MICROS Symbol

KEP | **6800** | / | **50**

KEP — seria / series
6800 — pojemność / capacity [µF]
50 — napięcie / voltage [V]

seria o pojemności series of a capacity ≥ 10 000 µF

KEPK | **010** | / | **35**

KEPK — seria / series
010 — pojemność / capacity 010 = 10 000 [µF]
35 — napięcie / voltage [V]

Please take a look at our full offer at www.micros.com.pl

- 85°C, 2000h
- Wysoka stabilność i niezawodność

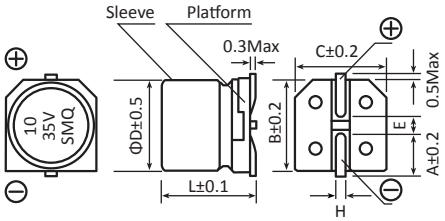
- 85°C, 2000h
- High stability and relability

SPECYFIKACJA / SPECIFICATION	VS1
Zakres temperatur pracy Operating temperature range	-40°C~+85°C
Zakres napięć znamionowych Rated voltage range	6.3~50V DC
Zakres pojemności nominalnych Nominal capacitance range	0.1μF~1500μF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	I≤0.01$C_R U_R$ lub/or 3μA (po/after 2 min.) w zależności, które większe/whichever is greater
Współczynnik rozpraszania (120 Hz, 25°C) Dissipation factor (120 Hz, 25°C)	U_R (V): 6.3 / 10 / 16 / 25 / 35 / 50 tgδ Φ4~Φ6.3: 0.26 / 0.22 / 0.18 / 0.16 / 0.13 / 0.12 tgδ Φ8/Φ10: 0.35 / 0.26 / 0.20 / 0.16 / 0.14 / 0.12
Żywotność Lifetime	minimum 2000h w temp. +85°C, minimum 2000h at +85°C temp.

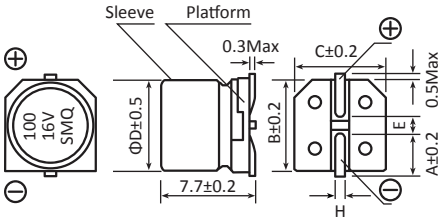
mm

Rozmiar/Size	Φ4x5.4	Φ5x5.4	Φ6.3x5.4	Φ6.3x7.7	Φ8x10.2	Φ10x10.2
A	1.8	2.1	2.4	2.5	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10.2	10.2
H	0.5~0.9				0.9~1.1	

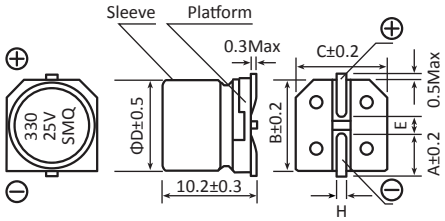
(Φ4~Φ6.3)



(Φ6.3×7.7)



(Φ8~Φ10×10.2)



Lista elementów / Parts listing

V / I / μF	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	2.8
0.47											4×5.4	4.0
1.0											4×5.4	8.4
2.2											4×5.4	13
3.3									4×5.4	18	4×5.4	17
4.7							4×5.4	16	4×5.4	20	5×5.4	20
10					4×5.4	23	4×5.4	24	5×5.4	29	6.3×5.4	33
22	4×5.4	28	4×5.4	30	5×5.4	37	5×5.4	38	6.3×5.4	46	6.3×5.4	43
33	5×5.4	37	5×5.4	41	5×5.4	44	6.3×5.4	52	6.3×5.4	53	6.3×7.7	85
47	5×5.4	45	6.3×5.4	52	5×5.4 6.3×5.4	48 58	6.3×5.4	60	6.3×5.4 6.3×7.7	55 70	6.3×7.7 8×10.2	90 140
100	5×5.4 6.3×5.4	50 70	6.3×5.4	76	6.3×5.4	86	6.3×7.7	130	6.3×7.7 8×10.2	80 175	8×10.2 10×10.2	145 195
220	6.3×5.4	95	6.3×7.7	150	6.3×7.7	150	8×10.2	232	8×10.2 10×10.2	185 265	10×10.2	415
330	6.3×7.7	150	8×10.2	240	8×10.2	270	10×10.2	305	10×10.2	324		
470	8×10.2	265	8×10.2	290	8×10.2 10×10.2	280 330	10×10.2	393	10×10.2	395		
1000	10×10.2	400	10×10.2	454								
1500	10×10.2	489										

Symbol MICROS / MICROS Symbol

KESA	0.1	/	50
seria series	pojemność capacity [μF]		napięcie voltage [V]

seria/series	KESA	KESB	KESC	KESD	KESE	KESF
ΦD×L	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x10.2	10x10.2

- 105°C, 1000h
- Wysoka stabilność i niezawodność

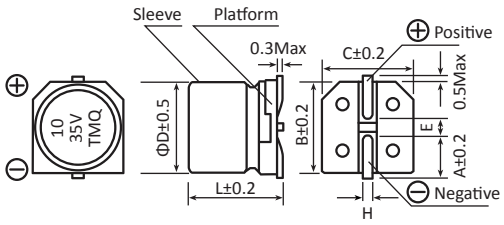
- 105°C, 1000h
- High stability and relability

mm

Rozmiar/Size	Φ4x5.4	Φ5x5.4	Φ6.3x5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.4	5.4	5.4
H	0.5~0.9		

SPECYFIKACJA SPECIFICATION	VT1						
Zakres temperatur pracy Operating temperature range	-55°C~+105°C						
Zakres napięć znamionowych Rated voltage range	6.3~50V DC						
Zakres pojemności nominalnych Nominal capacitance range	0.1μF~1000μF						
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)						
Prąd upływu (20°C) Leakage current (20°C)	I≤0.01$C_R U_R$ lub/or 3μA (po/after 2 min.) w zależności, które większe/whichever is greater						
Współczynnik rozpraszania (120Hz, 25°C) Dissipation factor (120Hz, 25°C)	U_R (V)	6.3	10	16	25	35	50
	tgδ	0.26	0.22	0.16	0.14	0.12	0.12
Żywotność Lifetime	minimum 1000h w temp.105°C, = 4000h w temp. 85°C minimum 1000h at 105°C temp. = 4000h at 85°C						

(Φ4~Φ6.3)



Lista elementów / Parts listing

V / I / μF	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	3.0
0.47											4×5.4	4.0
1.0											4×5.4	8.0
2.2											4×5.4	11
3.3											4×5.4	13
4.7					4×5.4	12	4×5.4	13	4×5.4	14	5×5.4	18
10					4×5.4	20	4×5.4 5×5.4	14 20	5×5.4	24	6.3×5.4	28
22	4×5.4	20	4×5.4 5×5.4	21 27	4×5.4 5×5.4	22 31	5×5.4 6.3×5.4	25 36	5×5.4 6.3×5.4	27 40	6.3×5.4	42
33	4×5.4 5×5.4	22 27	4×5.4 5×5.4	23 34	5×5.4 6.3×5.4	28 40	5×5.4 6.3×5.4	29 44	6.3×5.4	50		
47	4×5.4 5×5.4	25 37	5×5.4 63×5.4	30 41	5×5.4 6.3×5.4	31 56	6.3×5.4	48				
100	5×5.4 6.3×5.4	39 57	6.3×5.4	53	6.3×5.4	75						
220	6.3×5.4	67										

Symbol MICROS / MICROS Symbol

KESA **0.1** / **50** t

seria series — pojemność capacity [μF] — napięcie voltage [V]

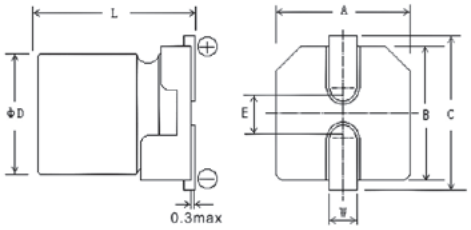
seria/series	KESA	KESB	KESC	KESD	KESE	KESF
ΦD×L	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x10.2	10x10.2

Please take a look at our full offer at www.micros.com.pl

Kondensatory elektrolityczne SMD, 105°C
SMT aluminium electrolytic capacitors, 105°C

- 105°C, 2000h
- Wysoka stabilność i niezawodność

- 105°C, 2000h
- High stability and relability



mm

Rozmiar/Size	L	A±0.2	B±0.2	C±0.2	E±0.2	W
4	5.8±0.2	4.3	4.3	5.1	1.0	0.5~0.9
5	5.8±0.2	5.3	5.3	6.1	1.3	0.5~0.9
6.3	5.8±0.2	6.6	6.6	7.4	2.2	0.5~0.9
6.3	7.7±0.2	6.6	6.6	7.4	2.2	0.5~0.9
8	10.2±0.5	8.4	8.4	9.2	3.1	0.9~1.1
10	7.7±0.3	10.4	10.4	11.2	4.5	0.9~1.1
10	10.2±0.5	10.4	10.4	11.2	4.5	0.9~1.1
12.5	13.5±0.5	13.0	13.0	14.9	4.4	0.8~1.2
12.5	16±0.5	13.0	13.0	14.9	4.4	0.8~1.2
16	16.5±0.5	17.0	17.0	18.8	6.4	1.0~1.6

SPECYFIKACJA / SPECIFICATION	VT2	
Zakres temperatur pracy Operating temperature range	-55°C~+105°C	-40°C~+105°C
Zakres napięć znamionowych Rated voltage range	6.3~100V DC	160~450V DC
Zakres pojemności nominalnych Nominal capacitance range	0.22µF~4700µF	
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu (20°C) Leakage current (20°C)	6.3~100V po/after 2 min. Φ4~10: I≤0.01CV lub/or 3µA w zależności, które większe /whichever is greater Φ12.5~16: I≤0.03CV lub/or 4µA w zależności, które większe /whichever is greater	160~450V po/after 5 min. Φ12.5~16: I=0.04CV + 100µA

Współczynnik rozpraszania (120 Hz, 20°C)
Dissipation factor (120 Hz, 20°C)

U_R (V)		6.3	10	16	25	35	50	63	100	160~250	400~450
tgδ	Φ4~10	0.45	0.35	0.28	0.18	0.16	0.14	0.12	0.12	-	-
	Φ12.5~16	0.40	0.38	0.34	0.26	0.22	0.18	0.14	0.10	0.20	0.25

Dla pojemności przekraczających 1000µF, należy dodać 0.02 dla każdego 1000µF
For capacitance exceeding 1000µF, add 0.02 per increment of 1000µF

Żywotność Lifetime	minimum 2000h w temp.105°C, = 8000h w temp. 85°C minimum 2000h at 105°C temp. = 8000h at 85°C

Lista elementów / Parts listing

V / µF	6.3V		10V		16V		25V		35V		50V		63V		100V		160V		200V		250V		400V		450V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.22											4×5.8	3														
0.33											4×5.8	4														
0.47											4×5.8	5	4×5.8	5												
1.0											4×5.8	8	4×5.8	8												
2.2											4×5.8	12	4×5.8	12												
3.3											4×5.8	14	5×5.8	17							12.5×13.5	60			12.5×13.5	40
4.7							4×5.8	17	4×5.8	17	5×5.8	20	6.3×5.8	22							12.5×13.5	65	12.5×13.5	45	12.5×13.5	45
10					4×5.8	20	4×5.8	20	5×5.8	27	6.3×5.8	32	6.3×5.8	32					12.5×13.5	80	12.5×13.5	70	12.5×13.5	50	12.5×16	75
22	4×5.8	22	4×5.8	22	5×5.8	30	5×5.8	30	6.3×5.8	44	6.3×5.8	38	6.3×7.7	58	8×10.2	100			12.5×16	110	12.5×13.5	105	16×16.5	85	16×16.5	85
33	5×5.8	34	5×5.8	34	5×5.8	34	6.3×5.8	46	6.3×5.8	46	6.3×7.7	65	8×10.2	140	10×10.2	150	12.5×13.5	95	12.5×16	120	16×16.5	180				
47	5×5.8	38	5×5.8	38	6.3×5.8	48	6.3×5.8	48	6.3×7.7	80	6.3×7.7	70	8×10.2	170	12.5×13.5	250	16×16.5	240	16×16.5	220	16×16.5	220				
100	6.3×5.8	69	63×5.8	69	6.3×5.8	69	6.3×7.7	100	8×10.2	240	8×10.2	210	10×10.2	310	12.5×13.5	380	16×16.5	250								
220	6.3×7.7	120	63×7.7	120	6.3×7.7	120	8×10.2 10×10.2	270 270	8×10.2	270	10×10.2	330	12.5×13.5	470	16×16.5	450										
330	8×10.2	290	8×10.2	290	8×10.2 10×10.2	290 290	8×10.2	290	10×10.2	370	12.5×13.5	490	16×16.5	650												
470	8×10.2	320	8×10.2 10×10.2	320 320	10×10.2	380	10×10.2	380	12.5×13.5	520	12.5×16	550	16×16.5	700												
1000	10×10.2	410	10×10.2	410	12.5×13.5	550	12.5×16	550	16×16.5	800																
2200	12.5×13.5	680	12.5×13.5	680	16×16.5	900	16×16.5	900																		
3300	12.5×16	850	16×16.5	950	16×16.5	950																				
4700	16×16.5	1000	16×16.5	1000																						

Symbol MICROS / MICROS Symbol

KESA | **0.33** | / | **50** | **tR2**

seria / series — pojemność / capacity [µF] — napięcie / voltage [V]

seria/ series	KESA	KESB	KESC	KESD	KESE	KESF	KESG	KESH	KESI
ΦD×L	4x5.8	5x5.8	6.3x5.8	6.3x7.7	8x10.2	10x10.2	12.5x13.5	12.5x16	16x16.5

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory elektrolityczne SMD, 105°C
SMT aluminium electrolytic capacitors, 105°C

- 105°C, 2000h
- Wysoka stabilność i niezawodność

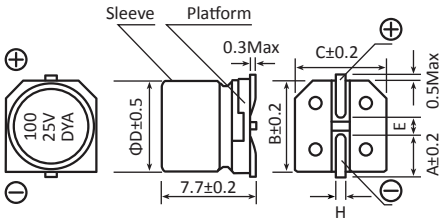
- 105°C, 2000h
- High stability and relability

SPECYFIKACJA / SPECIFICATION	VTD
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	6.3~100V DC
Zakres pojemności nominalnych Nominal capacitance range	4.7µF~1500µF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu Leakage current	I≤0.01$C_R U_R$ (V) lub/or 3µA (po/after 2 min.) w zależności, które większe/whichever is greater
Współczynnik rozpraszania (120Hz, 25°C) Dissipation factor (120Hz, 25°C)	U_R (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 tgδ: 0.26 / 0.22 / 0.16 / 0.14 / 0.12 / 0.12 / 0.12 / 0.12
Żywotność Lifetime	minimum 2000h w temp.105°C, = 8000h w temp. 85°C minimum 2000h at 105°C temp. = 8000h at 85°C

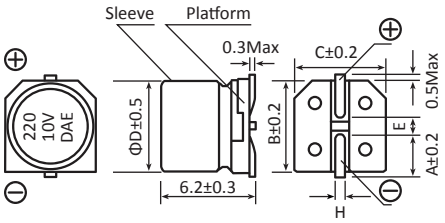
mm

Rozmiar/Size	Φ6.3x7.7	Φ8x6.2	Φ8x10.2	Φ10x10.2
A	2.5	2.9	2.9	3.2
B	6.6	8.3	8.3	10.3
C	6.6	8.3	8.3	10.3
E	2.2	3.1	3.1	4.5
L	7.7	6.2	10.2	10.2
H	0.5~0.9	0.8~1.1		

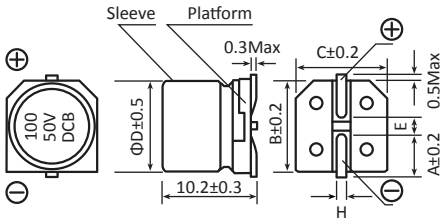
(Φ6.3×7.7)



(Φ8×6.2)



(Φ8~Φ10×10.2)



Lista elementów / Parts listing

V / µF	6.3V		10V		16V		25V		35V		50V		63V		100V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
4.7															6.3×7.7 8×6.2	35 40
10													6.3×7.7 8×6.2	39 45	8×10.2 (6.3×7.7)	77 (35)
22											6.3×7.7 8×6.2	51 (54)	8×10.2 (6.3×7.7)	98 (49)	10×10.2 (8×10.2)	126 (84)
33									8×6.2	50	6.3×7.7	60	6.3×7.7	112	10×10.2	133
47									6.3×7.7 8×6.2	70 78	8×10.2 (6.3×7.7)	120 (75)	10×10.2 (8×10.2)	160 (119)	10×10.2	140
100							6.3×7.7 8×6.2	91 105	8×10.2 (6.3×7.7)	120 (84)	10×10.2 (8×10.2)	170 (140)	10×10.2	196		
220	6.3×7.7 8×6.2	105 115	6.3×7.7 8×6.2	110 120	(6.3×7.7) 8×6.2	(105) 125	8×10.2	175	10×10.2 (8×10.2)	220 (190)	10×10.2	220				
330	6.3×7.7 8×6.2	110 120	8×10.2	196	8×10.2	195	10×10.2 (8×10.2)	240 (220)	10×10.2	245						
470	8×10.2	210	8×10.2	210	10×10.2 (8×10.2)	295 (230)	10×10.2	280	10×10.2	280						
1000	10×10.2 (8×10.2)	300 (230)	10×10.2	315	10×10.2	340										
1500	10×10.2	315	10×12	350												

Symbol MICROS / MICROS Symbol

KESD | **22** (pojemność / capacity [µF]) / **50** (napięcie / voltage [V]) **tR** (seria / series)

seria/series	KESD	KESE	KESF
ΦD×L	6.3x7.7	8x10.2	10x10.2

Please take a look at our full offer at www.micros.com.pl

- 105°C, 3000h
- Wysoka stabilność i niezawodność
- Mały rozmiar

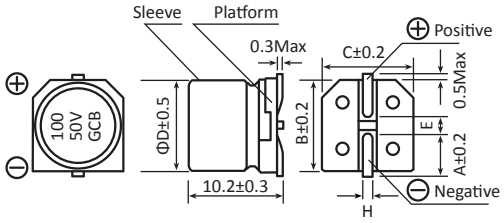
- 105°C, 3000h
- High stability and relability
- Small size

mm

Rozmiar/Size	Φ8x10.2	Φ10x10.2
A	2.9	3.2
B	8.3	10.3
C	8.3	10.3
E	3.1	4.5
L	10.2	10.2
H	0.8~1.1	

SPECYFIKACJA SPECIFICATION	VTG	
Zakres temperatur pracy Operating temperature range	-25°C~+105°C	
Zakres napięć znamionowych Rated voltage range	400V DC	
Zakres pojemności nominalnych Nominal capacitance range	2.2μF~4.7μF	
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu Leakage current	I≤0.04CV+100 (po/after 1 min.)	
Współczynnik rozpraszania (120Hz, 20°C) Dissipation factor (120Hz, 20°C)	V	400
	tgδ	0.22
Żywotność Lifetime	minimum 2000h w temp. 105°C, = 8000h w temp. 85°C minimum 2000h at 105°C temp. = 8000h at 85°C	

(Φ8~Φ10×10.2)



Lista elementów / Parts listing

Symbol	Capacitance [μF]	ΦD×L [mm]	Max. Ripple Current 100KHz at 105°C [mA rms]
KESE 2.2/400T	2.2	8×10.2	26
KESE 3.3/400T	3.3	10×10.2	37
KESE 4.7/400T	4.7	10×10.2	39

- 125°C, 1000h
- Wysoka stabilność i niezawodność

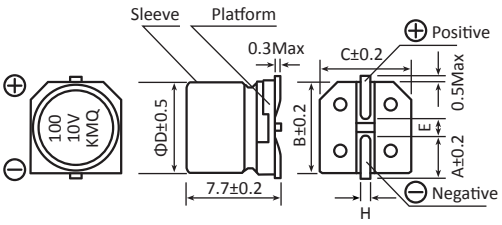
- 125°C, 1000h
- High stability and relability

mm

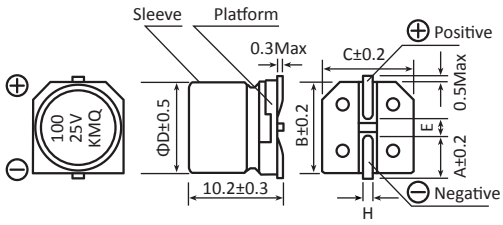
Rozmiar/Size	Φ6.3x7.7	Φ8x10.2	Φ10x10.2
A	2.5	2.9	3.2
B	6.6	8.3	10.3
C	6.6	8.3	10.3
E	2.2	3.1	4.5
L	7.7	10.2	10.2
H	0.5~0.9	0.8~1.1	

SPECYFIKACJA / SPECIFICATION	VTK					
Zakres temperatur pracy Operating temperature range	-40°C~+125°C					
Zakres napięć znamionowych Rated voltage range	10~50V DC					
Zakres pojemności nominalnych Nominal capacitance range	10µF~330µF					
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)					
Prąd upływu Leakage current	I≤0.01$C_R U_R$ lub/or 3µA (po/after 2 min.) w zależności, które większe/whichever is greater					
Współczynnik rozpraszania (120Hz, 20°C) Dissipation factor (120Hz, 20°C)	U_R (V)	10	16	25	35	50
	tgδ	0.32	0.24	0.21	0.18	0.18
Żywotność Lifetime	minimum 1000h w temp. 105°C = 4000h w temp. 85°C minimum 1000h at 105°C temp. = 4000h at 85°C					

(Φ6.3×7.7)



(Φ8~Φ10×10.2)



Lista elementów / Parts listing

V / I / µF	10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
10									6.3×7.7	25
22									6.3×77	50
33							6.3×7.7	53	8×10.2	74
47					6.3×7.7	56	8×10.2	79	10×10.2	94
100	6.3×7.7	62	8×10.2	89	8×10.2	84	10×10.2	101		
220	8×10.2	93	10×10.2	113						
330	10×10.2	118								

Symbol MICROS / MICROS Symbol

KESD | **10** | / | **50** | **t125**

seria / series | pojemność / capacity [µF] | napięcie / voltage [V]

seria/series	KESD	KESE	KESF
ΦD×L	6.3x7.7	8x10.2	10x10.2

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Kondensatory elektrolityczne SMD, wielkogabarytowe
SMT aluminium electrolytic capacitors large can

- 105°C, 2000h
- Wysoka stabilność i niezawodność

- 105°C, 2000h
- High stability and relability

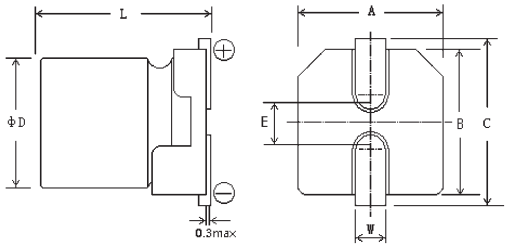
mm

Rozmiar/Size	Φ12.5x13.5	Φ12.5x16	Φ16x16.5	Φ16x21.5
A ± 0.2	13	13	17	17
B ± 0.2	13	13	17	17
C ± 0.3	13.8	13.8	18	18
E	4.2	5.2	6.5	6.5
L ± 0.5	13.5	16	16.5	21.5
W	0.8~1.2		1.0~1.6	

SPECYFIKACJA / SPECIFICATION	VLD	
Zakres temperatur pracy / Operating temperature range	-55°C~+105°C	-25°C~+105°C
Zakres napięć znamionowych / Rated voltage range	6.3~100V DC	160~450V DC
Zakres pojemności nominalnych / Nominal capacitance range	4.7μF~6800μF	
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)	
Prąd upływu / Leakage current	I≤0.01$C_R U_R$ lub/or 3μA (po/after 2 min.) w zależności, które większe/whichever is greater	

Współczynnik rozpraszania (120Hz, 20°C) / Dissipation factor (120Hz, 20°C)	UR	6.3	10	16	25	35	50	63	100	160~250	400&450
	tgδ	0.36	0.32	0.28	0.24	0.22	0.18	0.14	0.12	0.20	0.25

Żywotność / Lifetime	minimum 2000h w temp.105°C, = 8000h w temp. 85°C minimum 2000h at 105°C temp. = 8000h at 85°C



Lista elementów / Parts listing

V / I / μF	6.3V		10V		16V		25V		35V		50V		63V		100V		160V		250V		400V		450V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
4.7																					12.5×13.5	115	12.5×13.5	115
10																			12.5×13.5	140	12.5×16	125	16×16.5	130
22																			12.5×16	230	16×21.5	260	16×21.5	260
33																			16×16.5	320				
47																	12.5×16	360	16×21.5	400				
100													12.5×13.5	370	12.5×13.5	420	16×21.5	560						
220													12.5×13.5	560	16×21.5	810								
330											12.5×13.5	580	12.5×16	700										
470									12.5×13.5	580	12.5×16	710	16×16.5	910										
1000					12.5×13.5	660	12.5×13.5	700	16×16.5	1050	16×21.5	1250												
2200	12.5×13.5	850	12.5×13.5	910	16×16.5	1100	16×21.5	1380																
3300	12.5×16	950	16×16.5	1220	16×21.5	1380																		
4700	16×16.5	1320	16×21.5	1480																				
6800	16×21.5	1680																						

Symbol MICROS / MICROS Symbol

KELSG	100	/	63	t
seria / series	pojemność / capacity [μF]		napięcie / voltage [V]	

seria/series	KELSG	KELSH	KELSI	KELSK
ΦD×L	12.5x13.5	12.5x16	16x16.5	16x21.5

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- 105°C, 2000h
- Wysoka stabilność i niezawodność
- Niskoimpedancyjne

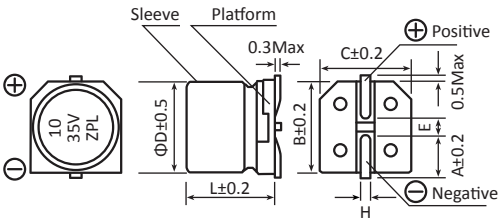
- 105°C, 2000h
- High stability and relability
- Low Impedance

mm

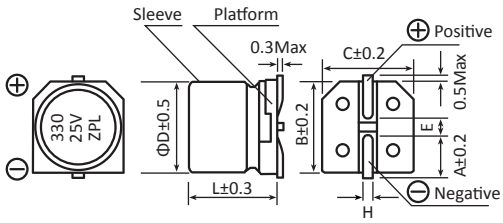
Rozmiar/Size	4x5.4	5x5.4	6.3x5.4	6.3x7.7	5x5.4	6.3x5.4	10x10.2
A	1.8	2.2	2.6	2.6	2.9	2.9	3.3
B/C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
L	5.4	5.4	5.4	7.7	6.2	10.2	10.2
H	0.5~0.9				0.9~1.1		

SPECYFIKACJA SPECIFICATION	VZ2									
Zakres temperatur pracy Operating temperature range	-55°C~+105°C									
Zakres napięć znamionowych Rated voltage range	6.3~100V DC									
Zakres pojemności nominalnych Nominal capacitance range	1µF~1500µF									
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)									
Prąd upływu (20°C) Leakage current (20°C)	I≤0.01$C_R U_R$ lub/or 3µA (po/after 2 min.) w zależności, które większe/whichever is greater									
Współczynnik rozpraszania (120Hz, 25°C) Dissipation factor (120Hz, 25°C)	U_R	6.3	10	16	25	35	50	63	80	100
	tgδ	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.08
Żywotność Lifetime	minimum 2000h w temp.105°C, = 8000h w temp. 85°C minimum 2000h at 105°C temp. = 8000h at 85°C									

(Φ4~ Φ6.3×5.4)



(Φ6.3×7.7/ Φ8~Φ10×10.2)



Lista elementów / Parts listing

V / µF	6.3V			10V			16V			25V			35V			50V			63V			80V			100V		
	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR	ΦD×L	I~mA	ESR
1.0																4×5.4	4.5	60									
2.2																4×5.4	4.5	60									
3.3																4×5.4	4.5	60				5×5.4	5.0	25			
4.7										4×5.4	2.2	80	4×5.4	2.2	80	5×5.4	3.5	85	5×5.4	3.0	50	6.3×5.4	3.0	40			
10							4×5.4	2.2	80	4×5.4	2.2	80	5×5.4	1.2	150	6.3×5.4	1.8	165	6.3×5.4 6.3×7.7	1.5 1.2	80 120	6.3×7.7	2.4	60			
22	4×5.4	2.2	80	4×5.4	2.2	80	5×5.4	1.2	150	6.3×5.4	0.58	230	6.3×5.4	0.58	230	6.3×7.7	1.6	185	6.3×7.7 8×6.2	1.2 1.2	120 120	8×10.2	1.3	130	8×10.2	1.3	130
33	5×5.4	1.2	150	5×5.4	1.2	150	6.3×5.4	0.58	230	6.3×5.4	0.58	230	6.3×5.4	0.58	230	6.3×7.7	1.6	185	8×10.2	0.65	250	8×10.2	1.3	130	10×10.2	0.7	200
47	5×5.4	1.2	150	6.3×5.4	0.58	230	6.3×5.4	0.58	230	6.3×7.7	0.34	280	6.3×7.7 8×6.2	0.34 0.33	280 290	8×10.2 10×10.2	0.4 0.3	300 342	8×10.2	0.65	250	10×10.2	0.7	200			
68																10×10.2	0.3	342	8×10.2	0.65	250						
100	6.3×5.4	0.58	230	6.3×7.7	0.34	280	6.3×5.4 6.3×7.7	0.52 0.34	230 280	6.3×7.7 8×6.2	0.34 0.26	280 300	8×10.2	0.17	450	10×10.2	0.22	670	10×10.2	0.35	400						
150	6.3×5.4	0.58	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.2	0.17	450	10×10.2	0.10	670	10×10.2	0.2	670									
220	6.3×5.4 6.3×7.7	0.58 0.34	243 280	6.3×7.7	0.34	280	6.3×7.7 8×10.2	0.34 0.17	384 450	8×10.2	0.17	450	8×10.2 10×10.2	0.17 0.10	587 670	10×10.2	0.18	670									
330	6.3×7.7	0.34	280	8×10.2	0.17	450	8×10.2	0.17	450	10×10.2	0.10	670	10×10.2	0.10	670												
470	8×10.2	0.17	450	8×10.2	0.17	450	8×10.2 10×10.2	0.17 0.10	450 670	10×10.2	0.10	670															
1000	8×10.2 10×10.2	0.17 0.10	450 670	10×10.2	0.10	670	10×10.2	0.10	670																		
1500	10×10.2	0.10	670																								

Symbol MICROS / MICROS Symbol

KELSA | **1** | / | **50** | **tR**

seria series	pojemność capacity [µF]		napięcie voltage [V]	

seria/series	KELSA	KELSB	KELSC	KELSD	KELSE	KELSF
ΦD×L	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x10.2	10x10.2

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Kondensatory elektrolityczne bipolarne SMD
SMT bipolar aluminium electrolytic capacitors

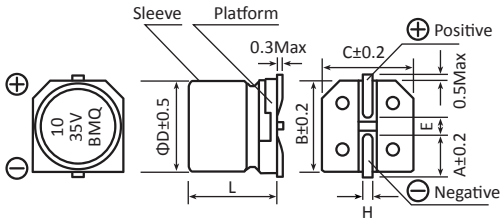
- 85°C, 1000h
- Wysoka stabilność i niezawodność
- Bipolarne

- 85°C, 1000h
- High stability and relability
- Bi-polarized

mm

Rozmiar/Size	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1.0	1.3	2.2	2.2
L±0.2	5.4	5.4	5.4	7.7
H	0.5~0.9			

SPECYFIKACJA / SPECIFICATION	VBP						
Zakres temperatur pracy / Operating temperature range	-40°C~+105°C						
Zakres napięć znamionowych / Rated voltage range	6.3~50V DC						
Zakres pojemności nominalnych / Nominal capacitance range	0.1μF~100μF						
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)						
Prąd upływu (20°C) / Leakage current (20°C)	I≤0.03$C_R U_R$ lub/or 10μA (po/after 2 min.) w zależności, które większe/whichever is greater						
Współczynnik rozpraszania (120Hz) / Dissipation factor (120Hz)	U_R (V)	6.3	10	16	25	35	50
	tgδ	0.24	0.20	0.17	0.17	0.15	0.15
Żywotność / Lifetime	minimum 1000h w temp. 85°C minimum 1000h at 85°C temp.						



Lista elementów / Parts listing

V / μF \ I	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	2.8
0.47											4×5.4	4.0
1.0											4×5.4	8.4
2.2									4×5.4	8.4	5×5.4	13
3.3							5×5.4	12	5×5.4	16	5×5.4	17
4.7					4×5.4	12	5×5.4	16	5×5.4	18	6.3×5.4	20
10			4×5.4	17	5×5.4	33	6.3×5.4	27	6.3×5.4	29	6.3×7.7	36
22	5×5.4	28	6.3×5.4	33	6.3×5.4	37	6.3×7.7	50	6.3×7.7	54		
33	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49	6.3×7.7	61				
47	6.3×5.4	45	6.3×7.7	61	6.3×7.7	75						
100	6.3×7.7	82										

Symbol MICROS / MICROS Symbol

KEBSA **0.1** / **50**

seria / series — pojemność / capacity [μF] — napięcie / voltage [V]

seria/series	KEBSA	KEBSB	KEBSC	KEBSD
ΦD×L	4x5.4	5x5.4	6.3x5.4	6.3x7.7

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory elektrolityczne SMD, o przedłużonej żywotności
SMT aluminium electrolytic capacitors long life

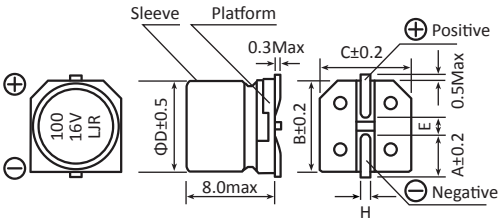
- 105°C, 3000-5000h
- Wysoka stabilność i niezawodność
- 105°C, 3000-5000h
- High stability and relability

mm

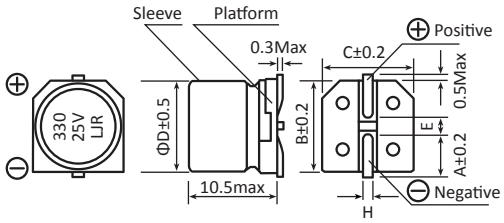
Rozmiar/Size	4x6.0	5x6.0	6.3x6.0	6.3x8.0	8x10.5	10x10.5
A	1.8	2.1	2.4	2.5	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
D	4.0	5.0	6.3	6.3	8.0	10
E	1.0	1.3	2.2	2.2	3.1	4.5
L	6.0	6.0	6.0	8.0	10.5	10.5
H	0.5~0.9				0.9~1.1	

SPECYFIKACJA / SPECIFICATION	VTL						
Zakres temperatur pracy Operating temperature range	-40°C~+105°C						
Zakres napięć znamionowych Rated voltage range	6.3~50V DC						
Zakres pojemności nominalnych Nominal capacitance range	0.1µF~1000µF						
Tolerancja pojemności Capacitance tolerance	±20% (120Hz, 20°C)						
Prąd upływu (20°C) Leakage current (20°C)	I≤0.01$C_R U_R$ lub/or 3µA (po/after 2 min.)						
Współczynnik rozpraszania (120Hz, 25°C) Dissipation factor (120Hz, 25°C)	U_R (V)	6.3	10	16	25	35	50
	tgδ	0.30	0.24	0.20	0.16	0.14	0.14
Żywotność Lifetime	min. 3000h w temp. 105°C = 12000h w temp. 85°C min. 3000h at 105°C temp. = 12000h at 85°C						

(Φ6.3×8.0)



(Φ8~ Φ10×10.5)



Lista elementów / Parts listing

V / µF	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×6.0	1.0
0.22											4×6.0	2.6
0.33											4×6.0	3.2
0.47											4×6.0	4.0
1.0											4×6.0	8.0
2.2											4×6.0	11
3.3											4×6.0	14
4.7							4×6.0	13	4×6.0	16	5×6.0	19
10					4×6.0	18	4×6.0	20	5×6.0	27	6.3×6.0	32
22	4×6.0	22	4×6.0	27	5×6.0	30	6.3×6.0	34	6.3×6.0	44	6.3×8.0	58
33	5×6.0	30	5×6.0	35	6.3×6.0	40	6.3×6.0	50	6.3×8.0	57	6.3×8.0	70
47	5×6.0	38	6.3×6.0	48	6.3×6.0	50	6.3×8.0	63	6.3×8.0	68	8×10.5	124
100	6.3×6.0	69	6.3×8.0	80	6.3×8.0	81	6.3×8.0	90	8×10.5	120	10×10.5	200
220	6.3×8.0	120	6.3×8.0	130	8×10.5	115	8×10.5	170	10×10.5	220	10×10.5	230
330	6.3×8.0	130	8×10.5	180	8×10.5	195	10×10.5	230	10×10.5	260		
470	8×10.5	210	8×10.5	210	10×10.5	260	10×10.5	280				
1000	10×10.5	300	10×10.5	300								

Symbol MICROS / MICROS Symbol

KERSA	0.1	/	50	t
seria series	pojemność capacity [µF]		napięcie voltage [V]	

seria/series	KERSA	KERSB	KERSC	KERSD	KERSE	KERSF
ΦD×L	4x6	5x6	6.3x6	6.3x8	8x10.5	10x10.5

Please take a look at our full offer at www.micros.com.pl

Kondensatory elektrolityczne SMD, o przedłużonej żywotności
SMT aluminium electrolytic capacitors long life

- 105°C, 5000h
- Wysoka stabilność i niezawodność

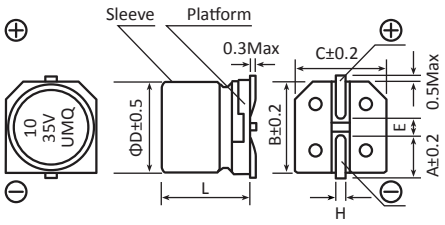
- 105°C, 5000h
- High stability and relability

SPECYFIKACJA / SPECIFICATION	VUL						
Zakres temperatur pracy / Operating temperature range	-40°C~+105°C						
Zakres napięć znamionowych / Rated voltage range	6.3~50V DC						
Zakres pojemności nominalnych / Nominal capacitance range	0.1μF~1000μF						
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)						
Prąd upływu (20°C) / Leakage current (20°C)	I≤0.01$C_R U_R$ lub/or 3μA (po/after 2 min.) w zależności, które większe/whichever is greater						
Współczynnik rozpraszania (120Hz, 20°C) / Dissipation factor (120Hz, 20°C)	V	6.3	10	16	25	35	50
	tgδ	0.32	0.24	0.20	0.16	0.13	0.12
Żywotność / Lifetime	min. 5000h w temp. 105°C = 20000h w temp. 85°C min. 5000h at 105°C temp. = 20000h at 85°C						

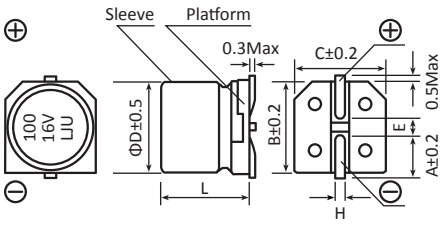
mm

Rozmiar/Size	4x6.0	5x6.0	6.3x6.0	6.3x8.0	8x10.5	10x10.5
A	1.8	2.1	2.4	2.5	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
D	4.0	5.0	6.3	6.3	8.0	10
E	1.0	1.3	2.2	2.2	3.1	4.5
L	6.0	6.0	6.0	8.0	10.5	10.5
H	0.5-0.9				0.8-1.1	

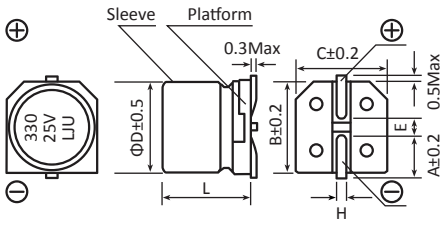
(Φ4~Φ6.3×6.0)



(Φ6.3×8.0)



(Φ8~Φ10×10.5)



Lista elementów / Parts listing

V / μF / I	6.3V		10V		16V		25V		35V		50V	
	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA	ΦD×L	mA
0.1											4×6.0	1.0
0.22											4×6.0	2.6
0.33											4×6.0	3.2
0.47											4×6.0	3.8
1.0											4×6.0	6.2
2.2											4×6.0	11
3.3											4×6.0	14
4.7							4×6.0	13	4×6.0	15	5×6.0	19
10					4×6.0	18	5×6.0	25	5×6.0	25	6.3×6.0	30
22	4×6.0	22	4×6.0 5×6.0	27 30	5×6.0	30	6.3×6.0	42	6.3×6.0	42	6.3×8.0	49
33	5×6.0	35	5×6.0	35	6.3×6.0	48	6.3×6.0	48	6.3×8.0	57	6.3×8.0 8×10.5	60 77
47	5×6.0	36	6.3×6.0	50	6.3×6.0	50	6.3×8.0	63	6.3×8.0 8×10.5	68 92	8×10.5	92
100	6.3×6.0	60	6.3×8.0	81	6.3×8.0	81	8×10.5	116	8×10.5 10×10.5	120 151	10×10.5	151
220	6.3×8.0	101	6.3×8.0 8×10.5	110 141	8×10.5 10×10.5	115 216	8×10.5	170	10×10.5	212		
330	6.3×8.0	120 160	8×10.5 10×10.5	180 218	8×10.5 10×10.5	195 238	10×10.5	238				
470	8×10.5	210 254	10×10.5	254	10×10.5	254						
1000	8×10.5	313										

Symbol MICROS / MICROS Symbol

KERSA	0.1	/	50	tR
seria / series	pojemność / capacity [μF]		napięcie / voltage [V]	

seria/series	KERSA	KERSB	KERSC	KERSD	KERSE	KERSF
ΦD×L	4x6	5x6	6.3x6	6.3x8	8x10.5	10x10.5

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory polimerowe, niskoimpedancyjne
Conductive polymer aluminium solid electrolytic capacitors

- 105°C, 2000h
- Niski współczynnik E.S.R. przy wysokiej częstotliwości

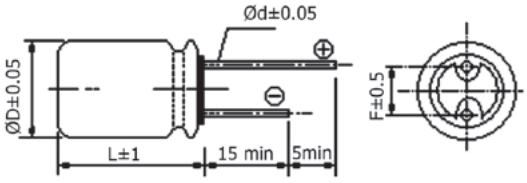
- 105°C, 2000h
- Low E.S.R. at high frequency range

Zastosowanie

- Przetwornice DC/DC
- Regulatory napięcia
- Płyty główne do komputerów

Recommended applications

- DC/DC converters
- Voltage regulators
- Computer motherboards



mm

Φ D×L	Φ D	L	F	Φ d
8x8	8	8	3.5	0.6
8x12	8	12	3.5	0.6
10x12	10	12	5.0	0.6

SPECYFIKACJA / SPECIFICATION	RPT
Zakres temperatur pracy / Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych / Rated voltage range	2.5~25V DC
Zakres pojemności nominalnych / Nominal capacitance range	10µF~4700µF
Tolerancja pojemności / Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) / Leakage current (20°C)	I≤0.15$C_R U_R$ (po/after 2 min.)
Żywotność / Lifetime	minimum 2000h w temp.105°C, co odp. 12000h w temp. 85°C minimum 2000h at 105°C temp., which is equivalent to 12000h at 85°C

Lista elementów / Parts listing

Rated voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100KHz to 300KHz [m]	100KHz [mA rms] at 105°C	Tan δ [120Hz]	max [µA]
2.5	560	8×8	16	4080	0.10	210
	680	8×8	16	4080	0.10	255
	820	8×8	16	4080	0.10	307
	820	8×12	15	4520	0.10	307
	1000	8×12	15	4520	0.10	375
	1500	8×12	15	4820	0.10	562
	1500	10×12	14	5100	0.10	562
	2200	10×12	14	5100	0.10	825
	2700	10×12	14	5230	0.10	1012
	3300	10×12	14	5230	0.10	1237
	3900	10×12	14	5440	0.10	1462
	4700	10×12	14	5440	0.10	1762
4	560	8×8	16	4080	0.10	336
	680	8×8	16	4080	0.10	408
	820	8×8	16	4080	0.10	492
	820	8×12	15	4520	0.10	492
	1000	8×12	15	4520	0.10	600
	1000	10×12	14	5100	0.10	600
	1200	8×12	15	4520	0.10	720
	1200	10×12	14	5100	0.10	720
	1500	8×12	15	4520	0.10	900
	1500	10×12	14	5440	0.10	900
	2200	10×12	14	5400	0.10	1320
	2700	10×12	14	5400	0.10	1620
	3300	10×12	14	5400	0.10	1980
6.3	470	8×8	16	4080	0.10	444
	560	8×8	16	4080	0.10	529
	680	8×8	16	4080	0.10	642
	820	8×8	16	4080	0.10	775
	820	8×12	15	4520	0.10	775
	1000	8×12	15	5100	0.10	945
	1000	10×12	14	5400	0.10	945
	1500	10×12	14	5400	0.10	1418
	1800	10×12	14	5400	0.10	1701
	2200	10×12	14	5400	0.10	2079
10	150	8×8	16	4080	0.10	225
	220	8×8	16	4080	0.10	330
	330	8×8	16	4080	0.10	495
	470	8×12	15	4080	0.10	705
	560	8×12	15	4080	0.10	840
	680	8×12	15	4520	0.10	1020
	820	8×12	15	4520	0.10	1230
	1000	8×12	15	4520	0.10	1500
	1000	10×12	14	5100	0.10	1500
	1500	10×12	14	5100	0.10	2250

Rated voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100KHz to 300KHz [m]	100KHz [mA rms] at 105°C	Tan δ [120Hz]	max [µA]
16	100	8×8	16	3400	0.10	240
	180	8×8	16	3500	0.10	432
	220	8×8	16	3500	0.10	528
	220	8×12	15	3640	0.10	528
	270	8×8	16	3500	0.10	648
	270	8×12	15	3640	0.10	648
	330	8×12	15	4520	0.10	732
	330	10×12	14	4720	0.10	732
	470	8×12	15	4520	0.10	1128
	470	10×12	14	4800	0.10	1128
	560	10×12	14	4820	0.10	1344
	680	10×12	14	5100	0.10	1632
	820	10×12	14	5100	0.10	1968
20	47	8×8	28	3200	0.10	141
	68	8×8	25	3400	0.10	204
	68	8×12	23	3600	0.10	204
	82	8×8	25	3400	0.10	246
	82	8×12	23	3600	0.10	246
	100	8×8	25	3400	0.10	300
	100	8×12	23	3600	0.10	300
	150	8×8	25	3400	0.10	450
	150	8×12	23	3600	0.10	450
	180	8×12	23	3900	0.10	540
	180	10×12	20	4500	0.10	540
	220	8×12	23	3900	0.10	660
	220	10×12	20	4500	0.10	660
	270	10×12	18	4500	0.10	810
	330	10×12	18	4500	0.10	990
	390	10×12	18	4500	0.10	1170
	470	10×12	18	4500	0.10	1410
25	10	8×8	41	1400	0.10	38
	22	8×8	35	1500	0.10	83
	33	8×12	28	1600	0.10	124
	47	8×12	28	1600	0.10	176
	56	8×12	28	2300	0.10	210
	82	8×12	28	2300	0.10	308
	120	8×8	35	2000	0.10	450
	150	8×12	28	2400	0.10	563
	270	10×12	25	2800	0.10	1013
	330	10×12	25	2800	0.10	1237

Symbol MICROS / MICROS Symbol

KK	10	/	25	/	08x8
seria / series	pojemność / capacity [µF]		napięcie / voltage [V]		wymiar / size [mm]

Please take a look at our full offer at www.micros.com.pl

Kondensatory polimerowe, niskoimpedancyjne
Extra low ESR conductive polymer aluminum

- 105°C, 2000h
- Bardzo niski współczynnik E.S.R. przy wysokiej częstotliwości

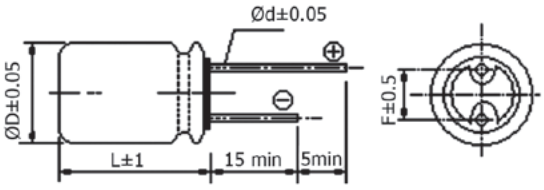
Zastosowanie

- Przetwornice DC/DC
- Regulatory napięcia
- Płyty główne do komputerów

- 105°C, 2000h
- Extra low E.S.R. at high frequency range

Recommended applications

- DC/DC converters
- Voltage regulators
- Computer motherboards



mm

Φ D×L	Φ D	L	F	Φ d
8x8	8	8	3.5	0.6
8x12	8	12	3.5	0.6
10x12	10	12	5.0	0.6

SPECYFIKACJA / SPECIFICATION	RPZ
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	2.5~16V DC
Zakres pojemności nominalnych Nominal capacitance range	33µF~4700µF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.15 C_R U_R$
Żywotność Lifetime	minimum 2000h w temp.105°C, co odp. 12000h w temp. 85°C minimum 2000h at 105°C temp., which is equivalent to 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
2.5	100	5×5.8	25	1670	0.12	100
	150	5×5.8	25	1970	0.12	100
	220	5×5.8	25	2200	0.12	100
	270	6.3×5.8	15	2610	0.12	101
	330	5×8	10	2610	0.12	124
	390	5×8	10	2610	0.12	146
	470	5×8	10	2610	0.12	176
	560	5×8	10	2610	0.12	210
	560	6.3×9	9	2690	0.12	210
	680	8×8	8	4080	0.10	255
	820	8×8	8	4080	0.10	307
	820	8×12	7	4520	0.10	307
	1000	8×12	7	4520	0.10	375
	1500	8×12	7	4820	0.10	562
	1500	10×12	7	5100	0.10	562
	2200	10×12	7	5100	0.10	825
	2700	10×12	7	5230	0.10	1012
	3300	10×12	7	5230	0.10	1237
	3900	10×12	7	5440	0.10	1462
	4700	10×12	7	5440	0.10	1762
4	100	5×5.8	25	1970	0.12	100
	150	6.3×5.8	15	2600	0.12	90
	180	6.3×5.8	15	2600	0.12	108
	220	5×8	10	2610	0.12	132
	270	5×8	10	2610	0.12	162
	330	5×8	10	2610	0.12	198
	390	5×8	10	2610	0.12	234
	470	6.3×9	9	2610	0.12	282
	560	8×8	9	4080	0.10	336
	680	8×8	9	4080	0.10	408
	820	8×8	8	4080	0.10	492
	1000	8×12	8	4520	0.10	600
	1200	10×12	7	5440	0.10	720
	1500	10×12	7	5440	0.10	900
	1800	10×12	7	5440	0.10	1040
	2200	10×12	7	5440	0.10	1320
	2700	10×12	7	5440	0.10	1620
	3300	10×12	7	5440	0.10	1980
6.3	100	6.3×5.8	15	2390	0.12	126
	150	6.3×5.8	15	2690	0.12	142
	220	5×8	10	2690	0.12	208
	270	5×8	10	2690	0.12	255
	270	6.3×9	9	2990	0.12	255
	330	5×8	10	2690	0.12	312
	330	6.3×9	9	2990	0.12	312
	390	5×8	10	2690	0.12	368
	390	6.3×9	9	2990	0.12	368
	470	6.3×9	9	2990	0.12	444
	560	8×8	9	4080	0.10	529
	680	8×8	9	4080	0.10	642
	820	8×12	8	4520	0.10	775
	1000	8×12	8	4520	0.10	945
	1500	10×12	7	5440	0.10	1417
	1800	10×12	7	5440	0.10	1701
	2200	10×12	7	5440	010	2079

Rated Voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	47	6.3×5.8	15	2200	0.12	100
	68	6.3×5.8	15	2200	0.12	102
	82	6.3×5.8	15	2200	0.12	123
	100	6.3×5.8	15	2200	0.12	150
	150	5×8	13	2690	0.12	225
	180	5×8	13	2690	0.12	270
	220	5×8	13	2690	0.12	330
	220	6.3×9	12	2690	0.12	330
	270	6.3×9	12	2690	0.12	405
	330	6.3×9	12	2690	0.12	495
	330	8×8	9	4080	0.10	495
	470	8×12	8	4080	0.10	705
	560	8×12	8	4080	0.10	840
	680	8×12	8	4520	0.10	1020
	820	8×12	8	4520	0.10	1230
	1000	8×12	8	4520	0.10	1500
	1000	10×12	7	5100	0.10	1500
	1200	10×12	7	5100	0.10	1800
	1500	10×12	7	5100	0.10	2250
16	33	5×8	15	2200	0.12	79
	33	6.3×5.8	14	2400	0.12	79
	39	5×8	15	2200	0.12	94
	39	6.3×5.8	14	2400	0.12	94
	47	5×8	15	2200	0.12	113
	47	6.3×5.8	14	2400	0.12	113
	68	5×8	15	2200	0.12	163
	68	6.3×9	14	2690	0.12	163
	82	5×8	14	2200	0.12	197
	82	6.3×9	13	2690	0.12	197
	100	5×8	13	2200	0.12	240
	100	6.3×9	12	2690	0.12	240
	100	8×8	12	3400	0.10	240
	150	6.3×9	12	2690	0.12	360
	180	8×8	12	3500	0.10	432
	220	6.3×9	12	2690	0.12	528
	220	8×8	9	3500	0.10	528
	220	8×12	8	3640	0.10	528
	270	8×8	9	3500	0.10	648
	270	8×12	8	3640	0.10	648
	330	8×12	8	4520	0.10	792
	330	10×12	7	4720	0.10	792
	470	8×12	8	4520	0.10	1128
	470	10×12	7	4720	0.10	1128
	560	10×12	7	4720	0.10	1344
	680	10×12	7	5100	0.10	1632
	820	10×12	7	5100	0.10	1968

Symbol MICROS / MICROS Symbol

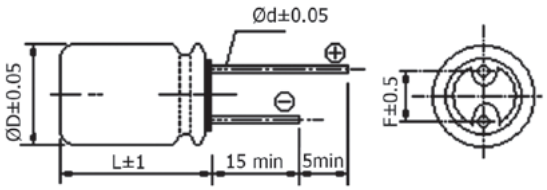
KK	33	/	16	/	06x5.8	E
seria series	pojemność capacity [µF]		napięcie voltage [V]		wymiar size [mm]	

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory polimerowe, wysokonapięciowe
High voltage conductive polymer aluminum

- 105°C, 2000h
- Niski współczynnik E.S.R. przy wysokiej częstotliwości

- 105°C, 2000h
- Low E.S.R. at high frequency range



mm

Φ D×L	Φ D	L	F	Φ d
8x8	8	8	3.5	0.6
8x12	8	12	3.5	0.6
10x12	10	12	5.0	0.6

SPECYFIKACJA SPECIFICATION	RPG
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	35~100V DC
Zakres pojemności nominalnych Nominal capacitance range	6.8μF~470μF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.2 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	minimum 2000h w temp.105°C, co odp. 12000h w temp. 85°C minimum 2000h at 105°C temp., which is equivalent to 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
35	39	8×8	35	2600	0.12	273
	47	8×8	35	2600	0.12	329
	56	8×8	35	1900	0.12	392
	56	8×12	30	2980	0.12	392
	68	8×12	30	2980	0.12	476
	68	10×12	28	3800	0.12	476
	82	8×12	30	2300	0.12	574
	82	10×12	28	3800	0.12	574
	100	8×12	30	2980	0.12	700
	100	10×12	28	3800	0.12	700
	150	10×12	28	3800	0.12	1050
	220	10×12	28	3800	0.12	1540
	330	10×12	28	3800	0.12	2310
	470	10×12	28	3800	0.12	3290
50	22	8×8	50	1900	0.12	220
	33	8×8	50	1900	0.12	330
	39	8×12	45	2700	0.12	390
	47	10×12	40	2900	0.12	470
	68	10×12	40	2900	0.12	680
	82	10×12	40	2900	0.12	820
	100	10×12	40	2900	0.12	1000
	150	10×12	40	2900	0.12	1500

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
63	22	8×8	50	2300	0.12	277
	22	8×12	45	2400	0.12	277
	27	8×12	45	2400	0.12	340
	33	8×12	45	2400	0.12	416
	33	10×12	40	2900	0.12	416
	39	10×12	40	2900	0.12	491
	47	10×12	40	2900	0.12	592
	56	10×12	40	2900	0.12	705
	68	10×12	40	2900	0.12	857
	82	10×12	40	2900	0.12	1033
80	10	8×12	45	1700	0.12	160
	12	8×12	45	1900	0.12	192
	15	8×12	45	1900	0.12	240
	22	10×12	42	2300	0.12	352
	33	10×12	42	2300	0.12	528
100	6. 8	8×8	50	1600	0.12	136
	10	8×12	45	1800	0.12	200
	18	10×12	42	2200	0.12	360
	22	10×12	42	2200	0.12	440
	33	10×12	42	2200	0.12	660

Symbol MICROS / MICROS Symbol

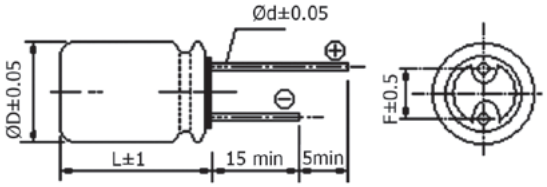
KKV	10	/	100	/	08x12
seria series	pojemność capacity [μF]		napięcie voltage [V]		wymiar size [mm]

Please take a look at our full offer at www.micros.com.pl

Kondensatory polimerowe o przedłużonej żywotności
Higher capacitance and long life conductive polymer aluminum solid electrolytic capacitor

- 105°C, 5000h
- Niski współczynnik E.S.R. przy wysokiej częstotliwości
- Wysoka stabilność i niezawodność

- 105°C, 5000h
- Low E.S.R. at high frequency range
- High stability and relability



mm

Φ D×L	Φ D	L	F	Φ d
8×12	8	12	3.5	0.6
10×12	10	12	5.0	0.6
10×16	10	16	5.0	0.6
12.5×13	12.5	13	5.0	0.6

SPECYFIKACJA SPECIFICATION	RPL
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	4~16V DC
Zakres pojemności nominalnych Nominal capacitance range	220µF~4700µF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.15 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	minimum 5000h w temp.105°C, co odp. 20000h w temp. 85°C minimum 5000h at 105°C temp., which is equivalent to 20000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
4	1000	8×12	15	4520	0.10	600
	1200	8×12	15	4520	0.10	720
	1500	10×12	14	5440	0.10	900
	2200	10×12	14	5440	0.10	825
	2700	10×12	14	5440	0.10	1012
	3300	10×12	14	5440	0.10	1237
	3900	10×12	14	5440	0.10	1462
	4700	10×16	13	5800	0.10	1762
	4700	12.5×13	13	5800	0.10	1762
6.3	820	8×12	15	4520	0.10	775
	1000	8×12	15	4520	0.10	945
	1000	8×12	14	4520	0.10	945
	1500	10×12	14	5400	0.10	1418
	1800	10×12	14	5440	0.10	1701
	2200	10×12	14	5440	0.10	2079
	2700	10×16	13	5800	0.10	2551
	2700	12.5×13	13	5800	0.10	2551
	3300	10×16	13	5800	0.10	3118
	3300	12.5×13	13	5800	0.10	3118

Rated Voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	680	8×12	15	4520	0.10	1020
	820	8×12	15	4520	0.10	1230
	820	10×12	14	5100	0.10	1230
	1000	8×12	15	4520	0.10	1500
	1000	10×12	14	5100	0.10	1500
	1200	10×12	14	5100	0.10	1800
	1500	10×12	14	5100	0.10	2250
	1800	10×16	13	5440	0.10	2700
	1800	12.5×13	13	5440	0.10	2700
	2200	10×16	13	5440	0.10	3300
	2200	12.5×13	13	5440	0.10	3300
16	220	8×12	15	3640	0.10	528
	270	8×12	15	3640	0.10	648
	330	8×12	15	4520	0.10	732
	330	10×12	14	4720	0.10	732
	470	8×12	15	4520	0.10	1128
	470	10×12	14	4720	0.10	1128
	560	10×12	14	4720	0.10	1344
	680	10×12	14	5100	0.10	1632
	820	10×12	14	5100	0.10	1968
	1000	10×16	13	5440	0.10	2400
	1000	12.5×13	13	5440	0.10	2400
	1500	10×16	13	5440	0.10	3600
	1500	12.5×13	13	5440	0.10	3600

Symbol MICROS / MICROS Symbol

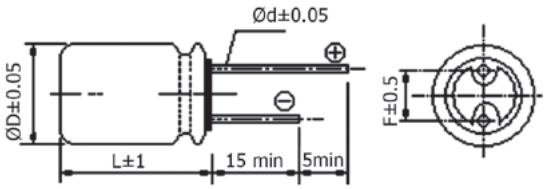
KKH	1000	/	04	/	08x12
seria series	pojemność capacity [µF]		napięcie voltage [V]		wymiar size [mm]

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory polimerowe SMD, 125°C
Higher temperature conductive polymer aluminum solid electrolytic capacitor

- 125°C, 2000h
- Niski współczynnik E.S.R.
- Wysoka stabilność i niezawodność

- 125°C, 2000h
- Low E.S.R.
- High stability and relability



mm

Φ D×L	Φ D	L	F	Φ d
8x8	8	8	3.5	0.6
8x12	8	12	3.5	0.6
10x12	10	12	5.0	0.6

SPECYFIKACJA / SPECIFICATION	RPK
Zakres temperatur pracy Operating temperature range	-55°C~+125°C
Zakres napięć znamionowych Rated voltage range	2.5~20V DC
Zakres pojemności nominalnych Nominal capacitance range	47μF~1500μF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.2 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	minimum 2000h w temp. 125°C, co odp. 12000h w temp. 85°C minimum 2000h at 125°C temp., which is equivalent to 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
2.5	560	8×8	16	3900	0.10	280
	680	8×8	16	3900	0.10	340
	820	8×8	16	4080	0.10	410
	1000	8×12	15	4520	0.10	500
	1500	8×12	15	4820	0.10	750
	1500	10×12	14	5440	0.10	750
4	560	8×8	16	4080	0.10	448
	680	8×8	16	4080	0.10	544
	820	8×8	16	4080	0.10	656
	1000	8×12	15	4520	0.10	800
	1200	8×12	15	4520	0.10	960
	1500	10×12	14	5440	0.10	1200
6.3	220	8×8	16	3900	0.10	277
	270	8×8	16	3900	0.10	340
	330	8×8	16	3900	0.10	416
	470	8×8	16	4080	0.10	592
	560	8×8	16	4080	0.10	706
	680	8×8	16	4080	0.10	857
	820	8×12	15	4520	0.10	1033
	1000	8×12	15	4520	0.10	1260
	1000	10×12	14	4520	0.10	1260
	1500	10×12	14	4520	0.10	1890

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	150	8×8	16	4080	0.10	300
	220	8×8	16	4080	0.10	440
	330	8×8	16	4080	0.10	660
	470	8×8	16	4080	0.10	940
	560	8×8	16	4080	0.10	1120
	680	8×12	15	4520	0.10	1360
	820	8×12	15	4520	0.10	1640
	1000	8×12	15	4520	0.10	2000
	1000	10×12	14	5100	0.10	2000
16	100	8×8	16	3400	0.10	320
	180	8×8	16	3500	0.10	576
	220	8×8	16	3500	0.10	704
	220	8×12	15	3640	0.10	704
	270	8×8	16	3500	0.10	864
	270	8×12	15	3640	0.10	864
	330	8×12	15	4520	0.10	1056
	330	10×12	14	4720	0.10	1056
	470	8×12	15	4520	0.10	1504
	470	10×12	14	4720	0.10	1504
	560	10×12	14	4720	0.10	1792
20	47	8×8	28	3200	0.10	188
	68	8×8	25	3400	0.10	272
	82	8×8	25	3400	0.10	328
	100	8×12	23	3600	0.10	400
	150	8×12	23	3600	0.10	600
	180	8×12	23	3900	0.10	720
	180	10×12	20	4500	0.10	720
	220	10×12	20	4500	0.10	880
	270	10×12	18	4500	0.10	1080
	330	10×12	18	4500	0.10	1320

Symbol MICROS / MICROS Symbol

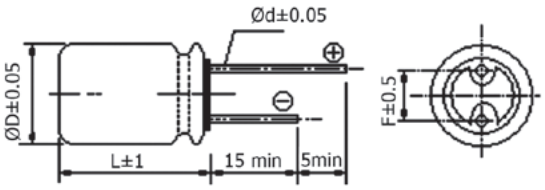
KK	1000	/	04	/	08x12	t
seria series	pojemność capacity [μF]		napięcie voltage [V]		wymiar size [mm]	

Please take a look at our full offer at www.micros.com.pl

Kondensatory polimerowe, miniaturowe
Small size conductive polymer aluminum solid electrolytic capacitor

- 105°C, 2000h
- Niski współczynnik E.S.R. przy wysokiej częstotliwości
- Rozmiar miniaturowy

- 105°C, 2000h
- Low E.S.R. at high frequency range
- Small Size



mm

Φ D×L	Φ D	L	F	Φ d
5×5.8	5	5.8	2.0	0.45
5×8	5	8	2.0	0.45
6.3×5.8	6.3	5.8	2.5	0.6
6.3×9	6.3	9	2.5	0.6

SPECYFIKACJA / SPECIFICATION	RPX
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	2.5~20V DC
Zakres pojemności nominalnych Nominal capacitance range	10μF~560μF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.2 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	minimum 2000h w temp.105°C, co odp. 20000h w temp. 85°C minimum 2000h at 105°C temp., which is equivalent to 20000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
2.5	100	5×5.8	30	1670	0.12	100
	150	5×5.8	30	1970	0.12	100
	220	5×5.8	30	2200	0.12	110
	270	6.3×5.8	25	2610	0.12	135
	270	6.3×9	18	2690	0.12	135
	330	5×8	18	2610	0.12	165
	330	6.3×9	18	2690	0.12	165
	390	5×8	18	2610	0.12	195
	390	6.3×9	18	2690	0.12	195
	470	5×8	18	2610	0.12	235
	470	6.3×9	18	2690	0.12	235
	560	5×8	18	2610	0.12	280
	560	6.3×9	18	2690	0.12	280
4	100	5×5.8	30	1970	0.12	100
	100	6.3×5.8	28	2600	0.12	100
	150	5×8	28	1970	0.12	120
	150	6.3×5.8	26	2600	0.12	120
	180	5×8	28	1970	0.12	144
	180	6.3×5.8	26	2600	0.12	144
	220	5×8	20	2610	0.12	176
	220	6.3×9	18	2690	0.12	176
	270	5×8	20	2610	0.12	216
	270	6.3×9	18	2690	0.12	216
	330	5×8	20	2610	0.12	264
	330	6.3×9	18	2690	0.12	264
	390	5×8	20	2610	0.12	312
	390	6.3×9	18	2690	0.12	312
	470	6.3×9	18	2690	0.12	376
	560	6.3×9	18	2690	0.12	448
6.3	82	6.3×5.8	30	1800	0.12	103
	100	6.3×5.8	25	2390	0.12	126
	150	5×8	25	2390	0.12	189
	150	6.3×5.8	23	2690	0.12	189
	180	5×8	20	2390	0.12	227
	180	6.3×9	18	2690	0.12	227
	220	5×8	20	2690	0.12	277
	220	6.3×9	18	2990	0.12	277
	270	5×8	20	2690	0.12	340
	270	6.3×9	18	2990	0.12	340
	330	5×8	20	2690	0.12	416
	330	6.3×9	18	2990	0.12	416
	390	5×8	20	2690	0.12	491
	390	6.3×9	18	2990	0.12	491
	470	6.3×9	18	2990	0.12	592

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	47	6.3×5.8	30	2200	0.12	100
	68	6.3×5.8	30	2200	0.12	136
	82	5×8	30	2100	0.12	164
	82	6.3×5.8	30	2200	0.12	164
	100	5×8	30	2100	0.12	200
	100	6.3×5.8	30	2200	0.12	200
	150	5×8	25	2690	0.12	300
	150	6.3×9	23	2690	0.12	300
	180	5×8	25	2690	0.12	360
	180	6.3×9	23	2690	0.12	360
	220	5×8	25	2690	0.12	440
	220	6.3×9	23	2690	0.12	440
	270	6.3×9	23	2690	0.12	540
	330	6.3×9	23	2690	0.12	660
16	33	6.3×5.8	28	2400	0.12	106
	39	5×8	30	2200	0.12	125
	39	6.3×5.8	28	2400	0.12	125
	47	5×8	30	2200	0.12	150
	47	6.3×5.8	28	2400	0.12	150
	68	5×8	30	2200	0.12	218
	68	6.3×9	28	2690	0.12	218
	82	5×8	28	2200	0.12	262
	82	6.3×9	26	2690	0.12	262
	100	5×8	26	2200	0.12	320
	100	6.3×9	24	2690	0.12	320
	150	6.3×9	24	2690	0.12	480
	220	6.3×9	24	2690	0.12	704
20	10	5×5.8	130	1450	0.12	100
	15	6.3×5.8	110	1450	0.12	100
	22	6.3×5.8	110	1450	0.12	100
	22	6.3×9	100	2200	0.12	100
	33	5×8	110	1650	0.12	132
	33	6.3×9	100	2200	0.12	132
	39	5×8	110	1650	0.12	156
	39	6.3×9	100	2200	0.12	156
	47	5×8	110	1650	0.12	156
	47	6.3×9	100	2200	0.12	156

Symbol MICROS / MICROS Symbol

KKM	100	/	16	/	05x8
seria series	pojemność capacity [μF]		napięcie voltage [V]		wymiar size [mm]

Pełna oferta znajduje się na stronie www.micros.com.pl

- 105°C, 2000h
- Niski współczynnik E.S.R. przy wysokiej częstotliwości

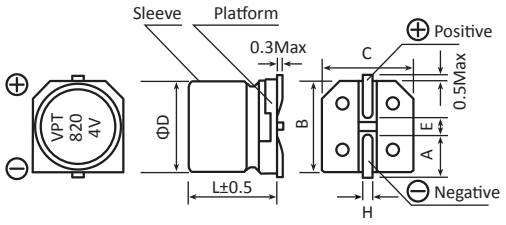
Zastosowanie

- Przetwornice DC/DC
- Regulatory napięcia
- Płyty główne do komputerów

- 105°C, 2000h
- Low E.S.R. at high frequency range

Recommended applications

- DC/DC converters
- Voltage regulators
- Computer motherboards



mm

ΦD	L	A	B	C	H	E±0.2
8	9.0	2.9	8.3	8.3	0.8~1.1	3.1
8	11.8	2.9	8.3	8.3	0.8~1.1	3.1
10	12.7	3.2	10.3	10.3	0.8~1.1	4.5

SPECYFIKACJA SPECIFICATION	VPT
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	2.5~25V DC
Zakres pojemności nominalnych Nominal capacitance range	10µF~3900µF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (120 Hz, 20°C) Leakage current (120Hz, 20°C)	$I \le 0.2 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	min. 2000h w temp.105°C = 12000h w temp. 85°C min. 2000h at 105°C temp. = 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
2.5	560	8×9	18	3900	0.10	280
	680	8×9	18	3900	0.10	340
	820	8×9	18	4080	0.10	410
	820	8×11.8	16	4520	0.10	410
	1000	8×11.8	16	4520	0.10	500
	1500	8×11.8	16	4820	0.10	750
	1500	10×12.7	14	5440	0.10	750
	1800	10×12.7	14	5440	0.10	900
	2200	10×12.7	14	5440	0.10	1100
	2700	10×12.7	14	5440	0.10	1350
	3300	10×12.7	14	5440	0.10	1650
	3900	10×12.7	14	5440	0.10	1950
4	560	8×9	18	4080	0.10	448
	680	8×9	18	4080	0.10	544
	820	8×9	18	4080	0.10	656
	1000	8×11.8	16	4520	0.10	800
	1200	8×11.8	16	4520	0.10	960
	1500	8×11.8	16	4520	0.10	1200
	1500	10×12.7	14	5440	0.10	1200
	1800	10×12.7	14	5440	0.10	1440
	2200	10×12.7	14	5440	0.10	1760
	2700	10×12.7	14	5440	0.10	2160
6.3	470	8×9	18	4080	0.10	592
	560	8×9	18	4080	0.10	706
	680	8×9	18	4080	0.10	857
	820	8×11.8	16	4520	0.10	1033
	820	10×12.7	14	5100	0.10	1033
	1000	8×11.8	18	4520	0.10	1260
	1000	10×12.7	14	4520	0.10	1260
	1200	10×12.7	14	5440	0.10	1512
	1500	10×12.7	14	5440	0.10	1890
	1800	10×12.7	14	5440	0.10	2268
	2000	10×12.7	14	5440	0.10	2520
10	150	8×9	18	4080	0.10	200
	220	8×9	18	4080	0.10	440
	270	8×9	18	4080	0.10	540
	330	8×9	18	4080	0.10	660
	330	8×11.8	16	4080	0.10	660
	470	8×11.8	16	4080	0.10	940
	470	10×12.7	14	4080	0.10	940
	560	8×11.8	16	4080	0.10	1120
	560	10×12.7	14	4080	0.10	1120
	680	8×11.8	16	4520	0.10	1360
	680	10×12.7	14	4520	0.10	1360
	820	8×11.8	16	4520	0.10	1640
	820	10×12.7	14	5100	0.10	1640
	1000	8×11.8	16	4520	0.10	2000
	1000	10×12.7	14	5100	0.10	2000
	1200	10×12.7	14	5100	0.10	2400
	1500	10×12.7	14	5100	0.10	3000
	1800	10×12.7	14	5100	0.10	3600

Rated Voltage I [V]	Capacitance [µF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	100	8×9	18	3400	0.10	280
	150	8×9	18	3500	0.10	340
	180	8×9	18	3500	0.10	410
	180	8×11.8	16	3640	0.10	410
	220	8×9	18	3500	0.10	500
	220	8×11.8	16	3640	0.10	750
	270	8×9	18	3500	0.10	750
	270	8×11.8	16	3640	0.10	900
	330	8×11.8	16	4520	0.10	1100
	330	10×12.7	14	4720	0.10	1350
	470	8×11.8	16	4520	0.10	1650
	470	10×12.7	14	4720	0.10	1950
	560	10×12.7	14	4720	0.10	448
	680	10×12.7	14	5100	0.10	544
	820	10×12.7	14	5100	0.10	656
	1000	10×12.7	14	5100	0.10	800
16	47	8×9	30	3200	0.10	960
	47	8×11.8	25	3400	0.10	1200
	68	8×9	28	3400	0.10	1200
	68	8×11.8	25	3600	0.10	1440
	82	8×9	28	3400	0.10	1760
	82	8×11.8	25	3600	0.10	2160
	100	8×9	28	3400	0.10	592
	100	8×11.8	25	3600	0.10	706
	150	8×9	28	3400	0.10	857
	150	8×11.8	25	3600	0.10	1033
	180	8×11.8	25	3900	0.10	1033
	180	10×12.7	23	4500	0.10	1260
	220	8×11.8	25	3900	0.10	1260
	220	10×12.7	20	4500	0.10	1512
	270	10×12.7	20	4500	0.10	1890
	330	10×12.7	20	4500	0.10	2268
25	10	8×9	42	1200	0.10	50
	22	8×9	38	1500	0.10	110
	33	8×11.8	35	1600	0.10	165
	47	8×11.8	35	1600	0.10	235
	56	8×11.8	35	2300	0.10	280
	82	8×11.8	35	2300	0.10	410
	120	8×9	40	2000	0.10	600
	150	8×11.8	35	2400	0.10	750
	220	10×12.7	30	2800	0.10	1100
	270	10×12.7	30	2800	0.10	1350
	330	10×12.7	30	2800	0.10	1650

Symbol MICROS / MICROS Symbol

KKS | 10 | / | 25 | / | 08x9

seria series	pojemność capacity [µF]	napięcie voltage [V]	wymiar size [mm]

- 105°C, 2000h
- Bardzo niski współczynnik E.S.R. przy wysokiej częstotliwości

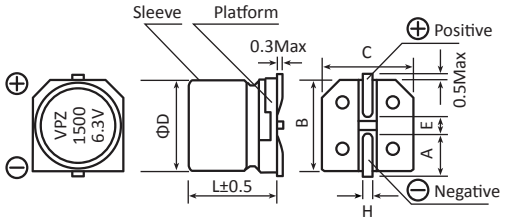
Zastosowanie

- Przetwornice DC/DC
- Regulatory napięcia
- Płyty główne do komputerów

- 105°C, 2000h
- Extra low E.S.R. at high frequency range

Recommended applications

- DC/DC converters
- Voltage regulators
- Computer motherboards



mm

ΦD	L	A	B	C	H	E±0.2
8	11.8	2.9	8.3	8.3	0.8~1.1	3.1
10	12.7	3.2	10.3	10.3	0.8~1.1	4.5

SPECYFIKACJA / SPECIFICATION	VPZ
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	2.5~16V DC
Zakres pojemności nominalnych Nominal capacitance range	33μF~3900μF
Tolerancja pojemności Capacitance tolerance	±20%
Prąd upływu (120 Hz, 20°C) Leakage current (120Hz, 20°C)	$I \le 0.02 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	min. 2000h w temp.105°C = 12000h w temp. 85°C min. 2000h at 105°C temp. = 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 125°C [mA rms]	Tan δ [120Hz]	Leakage Current
2.5	100	5×6	25	1670	0.12	100
	150	5×6	25	1970	0.12	100
	220	6.3×6	25	2610	0.12	110
	270	6.3×6	20	2610	0.12	135
	330	5×8	16	2610	0.12	165
	390	5×8	16	2610	0.12	195
	470	5×8	16	2610	0.12	235
	560	8×9	16	3900	0.10	280
	680	8×9	16	3900	0.10	340
	820	8×9	16	4080	0.10	410
	820	8×11.8	14	4520	0.10	410
	1000	8×11.8	14	4520	0.10	500
	1500	8×11.8	14	4820	0.10	750
	1500	10×12.7	12	5440	0.10	750
	1800	10×12.7	12	5440	0.10	900
	2200	10×12.7	12	5440	0.10	1100
	2700	10×12.7	12	5440	0.10	1350
	3300	10×12.7	12	5440	0.10	1650
	3900	10×12.7	12	5440	0.10	1950
4	100	5×6	28	1970	0.12	100
	100	6.3×6	25	2600	0.12	100
	150	5×8	25	1970	0.12	120
	220	5×8	18	2610	0.12	176
	270	5×8	18	2610	0.12	216
	330	5×8	18	2610	0.12	264
	390	5×8	18	2610	0.12	312
	470	6.3×9	16	2610	0.12	376
	560	8×9	16	4080	0.10	448
	680	8×9	16	4080	0.10	544
	820	8×9	16	4080	0.10	656
	1000	8×11.8	14	4520	0.10	800
	1200	8×11.8	14	4520	0.10	960
	1500	8×11.8	14	4520	0.10	1200
	1500	10×12.7	12	5440	0.10	1200
	1800	10×12.7	12	5440	0.10	1440
	2200	10×12.7	12	5440	0.10	1760
	2700	10×12.7	12	5440	0.10	2160
6.3	82	6.3×6	28	1800	0.12	103
	100	6.3×6	23	2390	0.12	126
	150	5×8	23	2390	0.12	189
	180	5×8	18	2390	0.12	227
	220	5×8	18	2690	0.12	277
	270	5×8	18	2690	0.12	340
	270	6.3×9	16	2990	0.12	340
	330	5×8	18	2690	0.12	416
	330	6.3×9	16	2990	0.12	416
	390	5×8	18	2690	0.12	491
	390	6.3×9	16	2990	0.12	491
	470	6.3×9	16	2990	0.12	592
	470	8×9	16	4080	0.10	592
	560	8×9	16	4080	0.10	706
	680	8×9	16	4080	0.10	857
	820	8×11.8	14	4520	0.10	1033
	820	10×12.7	12	5100	0.10	1033
	1000	8×11.8	14	4520	0.10	1260
	1000	10×12.7	12	4520	0.10	1260
	1200	10×12.7	12	5440	0.10	1512
	1500	10×12.7	12	5440	0.10	1890
	1800	10×12.7	12	5440	0.10	2268
	2000	10×12.7	12	5440	0.10	2520

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 125°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	47	6.3×6	25	2200	0.12	100
	68	6.3×6	25	2200	0.12	136
	82	6.3×6	25	2200	0.12	164
	100	5×8	25	2100	0.12	200
	100	6.3×6	25	2200	0.12	200
	150	5×8	22	2690	0.12	300
	150	8×9	16	4080	0.10	300
	220	5×8	22	2690	0.12	440
	220	8×9	16	4080	0.10	440
	270	6.3×9	16	2690	0.12	540
	330	8×9	16	4080	0.10	660
	330	8×11.8	14	4080	0.10	660
	470	8×11.8	14	4080	0.10	940
	470	10×12.7	12	4080	0.10	940
	560	8×11.8	14	4080	0.10	1120
	560	10×12.7	12	4080	0.10	1120
	680	8×11.8	14	4520	0.10	1360
	680	10×12.7	12	4520	0.10	1360
	820	8×11.8	14	4520	0.10	1640
	820	10×12.7	12	5100	0.10	1640
	1000	8×11.8	14	4520	0.10	2000
	1000	10×12.7	12	5100	0.10	2000
	1200	10×12.7	12	5100	0.10	2400
	1500	10×12.7	12	5100	0.10	3000
	1800	10×12.7	12	5100	0.10	3600
16	33	5×8	28	2200	0.12	106
	33	6.3×6	25	2400	0.12	106
	39	5×8	28	2200	0.12	125
	39	6.3×6	25	2400	0.12	125
	47	5×8	28	2200	0.12	150
	47	6.3×6	25	2400	0.12	150
	68	5×8	28	2200	0.12	218
	68	6.3×9	25	2690	0.12	218
	82	5×8	25	2200	0.12	262
	82	6.3×9	23	2690	0.12	262
	100	5×8	23	2200	0.12	320
	100	6.3×9	22	2690	0.12	320
	100	8×9	16	3400	0.10	320
	150	6.3×9	22	2690	0.12	480
	180	8×9	16	3500	0.10	576
	180	8×11.8	14	3640	0.10	576
	220	6.3×9	22	2690	0.12	704
	220	8×9	16	3500	0.10	704
	220	8×11.8	14	3640	0.10	704
	270	8×9	16	3500	0.10	864
	270	8×11.8	14	3640	0.10	864
	330	8×11.8	14	4520	0.10	1056
	330	10×12.7	12	4720	0.10	1056
	470	8×11.8	14	4520	0.10	1504
	470	10×12.7	12	4720	0.10	1504
	560	10×12.7	12	4720	0.10	1792
	680	10×12.7	12	5100	0.10	2176
	820	10×12.7	12	5100	0.10	2624
	1000	10×12.7	12	5100	0.10	3200

Symbol MICROS / MICROS Symbol

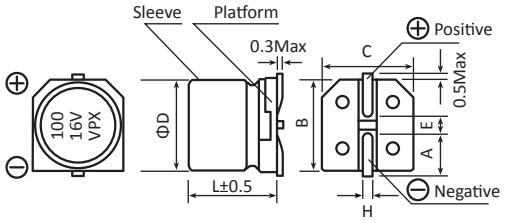
KKS	33	/	16	/	06x5.8	E
seria series	pojemność capacity [μF]		napięcie voltage [V]		wymiar size [mm]	

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory polimerowe SMD, miniaturowe
Small size conductive polymer aluminum solid electrolytic

- 105°C, 2000h
- Niski współczynnik. E.S.R. przy wysokiej częstotliwości
- Rozmiar miniaturowy

- 105°C, 2000h
- Low E.S.R. at high frequency range
- Small size



mm

ΦD	L	A	B	C	H	E±0.2
5	6.0	2.1	5.3	5.3	0.5~0.8	1.3
5	8.0	2.1	5.3	5.3	0.5~0.8	1.3
6.3	6.0	2.4	6.6	6.6	0.5~0.8	2.2
6.3	9.0	2.4	6.6	6.6	0.5~0.8	2.2

SPECYFIKACJA SPECIFICATION	VPX
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	2.5~20V DC
Zakres pojemności nominalnych Nominal capacitance range	10μF~560μF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.2 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	min. 2000h w temp.105°C = 12000h w temp. 85°C min. 2000h at 105°C temp. = 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
2.5	100	5×6	30	1670	0.12	100
	100	5×8	30	1970	0.12	100
	150	5×6	30	1970	0.12	100
	150	6.3×6	30	2200	0.12	100
	220	5×6	30	2200	0.12	110
	220	6.3×6	30	2610	0.12	110
	270	6.3×6	25	2610	0.12	135
	270	6.3×9	18	2690	0.12	135
	330	5×8	18	2610	0.12	165
	330	6.3×9	18	2690	0.12	165
	390	5×8	18	2610	0.12	195
	390	6.3×9	18	2690	0.12	195
	470	5×8	18	2610	0.12	235
	470	6.3×9	18	2690	0.12	235
	560	5×8	18	2610	0.12	280
	560	6.3×9	18	2690	0.12	280
4	100	5×6	30	1970	0.12	100
	100	6.3×6	28	2600	0.12	100
	150	5×8	28	1970	0.12	120
	150	6.3×6	26	2600	0.12	120
	180	5×8	28	1970	0.12	144
	180	6.3×6	26	2600	0.12	144
	220	5×8	20	2610	0.12	176
	220	6.3×9	18	2690	0.12	176
	270	5×8	20	2610	0.12	216
	270	6.3×9	18	2690	0.12	216
	330	5×8	20	2610	0.12	264
	330	6.3×9	18	2690	0.12	264
	390	5×8	20	2610	0.12	312
	390	6.3×9	18	2690	0.12	312
	470	6.3×9	18	2610	0.12	376
	560	6.3×9	18	2690	0.12	448
6.3	82	5×8	30	1700	0.12	103
	82	6.3×6	30	1800	0.12	103
	100	5×8	25	2390	0.12	126
	100	6.3×6	25	2390	0.12	126
	150	5×8	25	2390	0.12	189
	150	6.3×6	23	2690	0.12	189
	180	5×8	20	2390	0.12	227
	180	6.3×9	18	2690	0.12	227
	220	5×8	20	2690	0.12	277
	220	6.3×9	18	2990	0.12	277
	270	5×8	20	2690	0.12	340
	270	6.3×9	18	2990	0.12	340
	330	5×8	20	2690	0.12	416
	330	6.3×9	18	2990	0.12	416
	390	5×8	20	2690	0.12	491
	390	6.3×9	18	2990	0.12	491
	470	6.3×9	18	2990	0.12	592

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
10	47	5×8	30	2100	0.12	100
	47	6.3×6	30	2200	0.12	100
	68	5×8	30	2100	0.12	136
	68	6.3×6	30	2200	0.12	136
	82	5×8	30	2100	0.12	164
	82	6.3×6	30	2200	0.12	164
	100	5×8	30	2100	0.12	200
	100	6.3×6	30	2200	0.12	200
	150	5×8	25	2690	0.12	300
	150	6.3×9	23	2690	0.12	300
	180	5×8	25	2690	0.12	360
	180	6.3×9	23	2690	0.12	360
	220	5×8	25	2690	0.12	440
	220	6.3×9	23	2690	0.12	440
	270	6.3×9	23	2690	0.12	540
	330	6.3×9	23	2690	0.12	660
16	33	5×8	30	2200	0.12	106
	33	6.3×6	28	2400	0.12	106
	39	5×8	30	2200	0.12	125
	39	6.3×6	28	2400	0.12	125
	47	5×8	30	2200	0.12	150
	47	6.3×6	28	2400	0.12	150
	68	5×8	30	2200	0.12	218
	68	6.3×9	28	2690	0.12	218
	82	5×8	28	2200	0.12	262
	82	6.3×9	26	2690	0.12	262
	100	5×8	26	2200	0.12	320
	100	6.3×9	24	2690	0.12	320
	150	6.3×9	24	2690	0.12	480
	220	6.3×9	24	2690	0.12	704
20	10	5×6	130	890	0.12	100
	15	6.3×6	110	1450	0.12	100
	22	6.3×6	110	1450	0.12	100
	22	6.3×9	100	2200	0.12	100
	33	5×8	110	1650	0.12	132
	33	6.3×9	100	2200	0.12	132
	39	5×8	110	1650	0.12	156
	39	6.3×9	100	2200	0.12	156
	47	5×8	110	1650	0.12	188
	47	6.3×9	100	2200	0.12	188

Symbol MICROS / MICROS Symbol

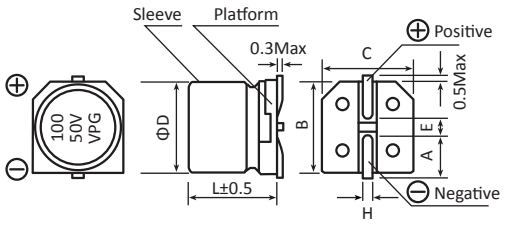
KKSM	100	/	10	/	05x8
	seria series		pojemność capacity [μF]		napięcie voltage [V]		wymiar size [mm]

Please take a look at our full offer at www.micros.com.pl

Kondensatory polimerowe SMD, wysokonapięciowe
High voltage conductive polymer aluminum solid electrolytic capacitor of SMD type

- 105°C, 2000h
- Wysokonapięciowe
- Niski współczynnik E.S.R. przy wysokiej częstotliwości

- 105°C, 2000h
- High Voltage
- Low E.S.R. at high frequency range



mm

ΦD	L	A	B	C	H	E±0.2
8	9.0	2.9	8.3	8.3	0.8~1.1	3.1
8	11.8	2.9	8.3	8.3	0.8~1.1	3.1
10	12.7	3.2	10.3	10.3	0.8~1.1	4.5

SPECYFIKACJA / SPECIFICATION	VPG
Zakres temperatur pracy Operating temperature range	-55°C~+105°C
Zakres napięć znamionowych Rated voltage range	35~100V DC
Zakres pojemności nominalnych Nominal capacitance range	10μF~3900μF
Tolerancja pojemności Capacitance tolerance	±20% (120 Hz, 20°C)
Prąd upływu (20°C) Leakage current (20°C)	$I \leq 0.2 C_R U_R$ (po/after 2 min.)
Żywotność Lifetime	min. 2000h w temp.105°C = 12000h w temp. 85°C min. 2000h at 105°C temp. = 12000h at 85°C

Lista elementów / Parts listing

Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
25	33	8×11.8	35	1600	0.12	165
	47	8×11.8	35	1600	0.12	235
	56	8×11.8	35	2300	0.12	280
	82	8×11.8	35	2300	0.12	410
	120	8×9	40	2000	0.12	600
	150	8×11.8	35	2400	0.12	750
	220	10×12.7	32	2800	0.12	1100
	270	10×12.7	32	2800	0.12	1350
	330	10×12.7	32	2800	0.12	1650
35	39	8×9	42	2600	0.12	273
	39	8×11.8	35	2980	0.12	273
	47	8×9	40	2600	0.12	329
	47	8×11.8	35	1500	0.12	329
	56	8×9	40	1900	0.12	392
	56	8×11.8	35	2980	0.12	392
	68	8×11.8	35	2980	0.12	476
	68	10×12.7	32	3800	0.12	476
	82	8×11.8	35	2300	0.12	574
	82	10×12.7	32	3800	0.12	574
	100	8×11.8	35	2980	0.12	700
	100	10×12.7	32	3800	0.12	700
	150	10×12.7	32	2700	0.12	1050
	220	10×12.7	32	3800	0.12	1540
	330	10×12.7	32	3800	0.12	2310
50	22	8×9	60	1900	0.12	220
	33	8×9	60	1900	0.12	330
	33	8×11.8	50	2200	0.12	330
	39	8×11.8	50	2700	0.12	390
	39	10×12.7	45	2900	0.12	390
	47	10×12.7	45	2900	0.12	470
	68	10×12.7	45	2900	0.12	680
	82	10×12.7	45	2900	0.12	820
	100	10×12.7	45	2900	0.12	1000
	150	10×12.7	45	2900	0.12	1500

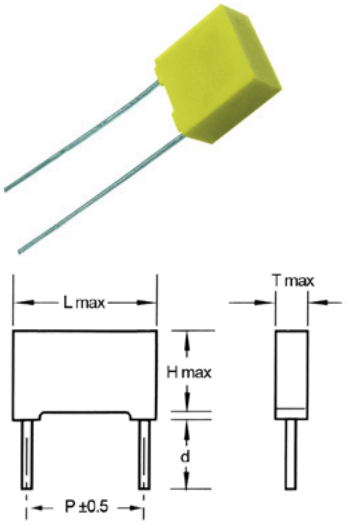
Rated Voltage I [V]	Capacitance [μF]	ΦD×L [mm]	ESR 100-300KHz 20°C [mΩ]	Max. Ripple Current 100KHz at 105°C [mA rms]	Tan δ [120Hz]	Leakage Current
63	15	8×9	70	1900	0.12	189
	22	8×9	70	2300	0.12	277
	22	8×11.8	50	2400	0.12	277
	27	8×11.8	50	2400	0.12	340
	33	8×11.8	50	2400	0.12	416
	33	10×12.7	45	2900	0.12	416
	39	10×12.7	45	2900	0.12	491
	47	10×12.7	45	2900	0.12	592
80	10	8×11.8	55	1700	0.12	160
	12	8×11.8	55	1900	0.12	192
	15	8×11.8	55	1900	0.12	240
	22	10×12.7	50	2300	0.12	352
100	6.8	8×9	70	1600	0.12	136
	10	8×11.8	55	1800	0.12	200
	18	10×12.7	50	2200	0.12	360
	22	10×12.7	50	2200	0.12	440
	33	10×12.7	50	2200	0.12	660

Symbol MICROS / MICROS Symbol

KKSG	10	/	100	/	8x12
seria series	pojemność capacity [μF]		napięcie voltage [V]		wymiar size [mm]

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory poliestrowe metalizowane MKT
Metallized poliester film capacitors - box type



SPECYFIKACJA SPECIFICATION		
Zakres temperatur pracy Operating temperature range	-55°C~+100°C	-40°C~+85°C
Zakres napięć znamionowych Rated voltage range	50~100VDC	250~630VDC
Zakres pojemności nominalnych Nominal capacitance range	1nF~4.7μF	1nF~4.7μF
Tolerancja pojemności Capacitance tolerance	5%, 10%	5%, 10%
Współczynnik rozpraszania (1kHz, 20°C) Dissipation factor (1kHz, 20°C)	<1.0%	<1.0%
Rezystancja izolacji Insulation resistance	≥15000MΩ Cr≤0.33μF ≥5000S Cr≥0.33μF (20°C, 1min)	≥7500MΩ Cr≤0.33μF ≥2500S Cr>0.33μF (20°C, 1min)

Lista elementów / Parts listing

Pojemność Capacitance [μF]	50V DC / 63V DC					100V DC					250V DC					400V DC					630V DC				
	L	H	T	P	d	L	H	T	P	d	L	H	T	P	d	L	H	T	P	d	L	H	T	P	d
0.0010	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17
0.0015	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17
0.0018	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17
0.0022	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.0	7.0	2.5	5.0	17
0.0027	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	5.0	25	11.0	9.0	4.0	5.0	25
0.0033	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25
0.0039	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	5.0	25	11.0	9.0	4.0	10.0	25
0.0047	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25
0.0056	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25	13.0	8.5	4.0	10.0	25
0.0068	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25	13.0	9.0	4.0	10.0	20
0.0082	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25	11.0	9.0	4.0	10.0	25
0.010	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	13.0	9.0	4.0	10.0	25	13.0	9.0	4.0	10.0	25
0.012	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25	18.0	11.0	5.0	15.0	20
0.015	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	13.0	9.0	4.0	10.0	25	18.0	11.0	5.0	15.0	20
0.018	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	11.0	9.0	4.0	10.0	25	18.0	11.0	5.0	15.0	25
0.022	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	13.0	9.0	4.0	10.0	25	18.0	11.0	5.0	15.0	20
0.027	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	18.0	11.0	5.0	15.0	20	18.0	11.0	5.0	15.0	20
0.033	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	13.0	9.0	4.0	10.0	20	18.0	11.0	5.0	15.0	20
0.039	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	18.0	11.0	5.0	15.0	20	18.0	12.0	6.0	15.0	25
0.047	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	10.0	5.0	5.0	20	13.0	11.0	5.0	10.0	22	18.0	12.0	6.0	5.0	25
0.056	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	10.0	5.0	5.0	20	18.0	11.0	5.0	15.0	20	18.0	14.0	8.0	15.0	25
0.068	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.2	10.0	5.0	5.0	20	18.0	11.0	5.0	15.0	25	18.0	14.0	8.0	15.0	25
0.082	7.2	6.5	2.5	5.0	17	7.2	7.2	3.5	5.0	17	7.2	10.0	5.0	5.0	20	18.0	12.0	6.0	15.0	25	18.0	15.0	8.5	15.0	25
0.10	7.2	6.5	2.5	5.0	17	7.2	6.5	2.5	5.0	17	7.5	11.0	6.0	5.0	25	18.0	11.0	5.0	15.0	20	18.0	15.0	8.5	15.0	25
0.12	7.2	6.5	2.5	5.0	17	7.2	10.0	4.5	5.0	17	7.5	11.0	6.0	5.0	17	18.0	14.0	8.0	15.0	25	26.5	16.0	7.0	22.5	25
0.15	7.2	6.5	2.5	5.0	17	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	18.0	11.0	5.0	15.0	20	26.5	16.0	7.0	22.5	25
0.18	7.2	6.5	2.5	5.0	17	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	18.0	15.0	8.5	15.0	25	27.0	16.0	7.0	22.5	25
0.22	7.2	7.5	3.5	5.0	17	7.2	10.0	5.0	5.0	20	7.5	11.0	6.0	5.0	17	27.0	15.0	6.0	22.5	25	27.0	17.0	9.0	22.5	25
0.27	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	13.0	11.0	5.0	10.0	20	27.0	17.0	9.0	22.5	25	27.0	17.0	9.0	22.5	25
0.33	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	18.0	11.0	5.0	15.0	20	26.5	16.0	7.0	22.5	25	27.0	19.0	10.0	22.5	25
0.39	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	18.0	11.0	5.0	15.0	20	26.5	17.0	8.5	22.5	30	32.0	20.0	11.0	27.5	20
0.47	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	18.0	11.0	5.0	15.0	20	26.5	16.0	7.0	22.5	25	32.0	20.0	11.0	27.5	20
0.56	7.2	10.0	4.5	5.0	17	7.2	11.0	6.0	5.0	17	26.5	16.0	7.0	22.5	25	26.5	17.0	8.5	22.5	30	32.0	22.0	13.0	27.5	25
0.68	7.2	11.0	6.0	5.0	17	7.2	11.0	6.0	5.0	17	26.5	16.0	7.0	22.5	25	32.0	20.0	11.0	27.5	20	32.0	22.0	13.0	27.5	25
0.82	7.2	11.0	6.0	5.0	17	7.2	11.0	6.0	5.0	17	26.5	16.0	7.0	22.5	25	32.0	20.0	11.0	27.5	20	32.0	25.0	15.0	27.5	25
1.00	7.2	11.0	6.0	5.0	17	7.2	11.0	6.0	5.0	17	18.0	7.0	14.0	15.0	20	32.0	22.0	13.0	22.5	25	32.0	27.0	13.0	27.5	25
1.50	7.2	13.0	7.5	5.0	17	18.0	11.0	5.0	10.0	25	18.0	7.0	14.0	15.0	20										
2.20	7.2	13.0	7.5	5.0	4	18.0	11.0	5.0	10.0	25	32.0	20.0	11.0	27.5	20										

Symbol MICROS / MICROS Symbol

KMKT	10	/	100	j	5
seria series	pojemność capacity [nF]		napięcie voltage [V]	tol. j=5% k=10%	raster pitch [mm]

seria o pojemności series of a capacity ≥ 1 μF

KMKTU	10	/	100	j	5
seria series	pojemność capacity [μF]		napięcie voltage [V]	tol. j=5% k=10%	raster pitch [mm]

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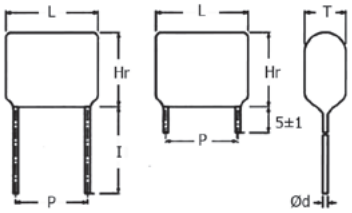


SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-55°C~+105°C (przy 105°C 75% napięcia znamionowego) (at 105°C with 75% of rated voltage)
Zakres napięć znamionowych Rated voltage range	100VDC, 250VDC, 400VDC, 630VDC, 1000VDC
Zakres pojemności nominalnych Nominal capacitance range	10nF~10μF
Tolerancja pojemności Capacitance tolerance	10%
Współczynnik rozpraszania (1kHz, 20°C) Dissipation factor (1kHz, 20°C)	$tg\delta \leq 130*10^{-4}$ (10KHz, 25°C) $tg\delta \leq 100*10^{-4}$ (1KHz, 25°C)
Rezystancja izolacji Insulation resistance	≥15000MΩ C≤0.33μF ≥5000MΩ C≥0.33μF

Lista elementów / Parts listing

Pojemność Capacitance [μF]	Raster Pitch [mm]	100V DC			250V DC			400V DC			630V DC			1000V DC		
		L	T	Hr	L	T	Hr	L	T	Hr	L	T	Hr	L	T	Hr
0.001	10													13	5.5	10.5
0.0047	10													13	7.5	15
0.0047	15													18	7	10
0.01	10										13	5	9.5			
0.01	15													18	6	13
0.015	10							13	5.5	10	13	5.5	10			
0.022	10							13	5	9	13	5.5	10.5			
0.033	10							13	5.5	10.5	13	6.5	11			
0.047	10				13	5	9	13	5	9						
0.068	15										18	6	10.5			
0.068	10				13	5	8.5	13	6	10.5						
0.068	15							20	5.5	10	18	6.5	11.5			
0.1	10	13	5	8.5	13	5.5	10.5	13	7	11.5						
0.1	15							18	6.5	11.5	18	7.5	13.5			
0.1	22.5										26	7	13			
0.15	10	13	5.5	9.5	13	6.5	11									
0.15	15							18	5.5	12	18	8.5	15.5			
0.15	22.5										25	6.0	14			
0.22	10	13	5.5	9.5	13	8	12									
0.22	15	18	6	8.5	18	6	11	17.5	6.5	11	18	9.5	17.5			
0.22	22.5							24	5.5	9.5	26	8.5	15			
0.33	10	13	6.5	10.5												
0.33	15	18	6	10.5	18	7	12	18	8.0	13.5						
0.33	22.5							26	7	12	26	9.5	17			
0.47	10	13	7	11.5							26	11.5	20.0			
0.47	15	18	6	10.5	18	8.0	12.5	18	9	16	31	10	18.5			
0.47	22.5				26	7	11.5	26	7	13.5						
0.68	15	18	6.5	12.5	18	9	15									
0.68	22.5				26	7.5	13	26	7.5	17	26	13.5	22.5			
0.68	27.5										31	8.8	18			
1	10	13	7	16.5												
1	15	18	7.5	12.5	18	11	16.5									
1	22.5	26	7	12	26	8.5	14.5	26	9	18.5						
1	27.5							29	7.5	16	31	15	24.0			
1.5	15	18	9	15												
1.5	22.5	26	8.0	14.5	26	9.5	16.5	26	11	19						
1.5	27.5				31	9	16	31	13	23	32	17	26.5			
2.2	15	18	10.5	17												
2.2	22.5	26	8.5	16.5	26	11	19.5									
2.2	27.5							32	12	23						
3.3	22.5	26	9	18	26	14.0	23.0									
3.3	27.5	31	10	17.5	31	13	22.0	31	15.5	25						
4.7	22.5	26	11	21.0												
4.7	27.5	31	11	20.5	31	15	25.5	32	18.5	28						
6.8	27.5	31	13	23.0												
10	27.5	31	16	25												

Symbol MICROS / MICROS Symbol

KMKT | **10** | / | **100** | **j** | **5** | **-k**

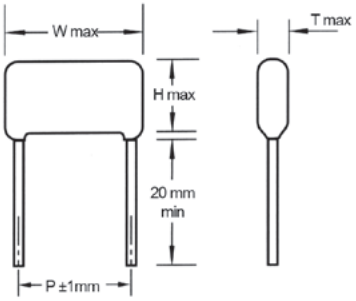
seria (series) | pojemność (capacity) [nF] | napięcie (voltage) [V] | tol. j=5% k=10% | raster (pitch) [mm]

seria o pojemności (series of a capacity) ≥ 1 μF

KMKTU | **10** | / | **100** | **j** | **5** | **-k**

seria (series) | pojemność (capacity) [μF] | napięcie (voltage) [V] | tol. j=5% k=10% | raster (pitch) [mm]

Pełna oferta znajduje się na stronie www.micros.com.pl



SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-40°C~+100°C
Zakres napięć znamionowych Rated voltage range	275VAC
Zakres pojemności nominalnych Nominal capacitance range	0.001µF~2.2µF
Tolerancja pojemności Capacitance tolerance	±10%
Współczynnik rozpraszania (1kHz, 25°C) Dissipation factor (1kHz, 25°C)	$tg\delta < 30*10^{-4}$
Klasa bezpieczeństwa Safety Class	X2
Wytrzymałość dielektryka Withstand Voltage	1700VDC / 2s

Lista elementów / Parts listing

C [nF]	Wymiary/Size				
	L	H	T	P±0.5	d±0.08
10	13	10	4	10	0.6
10	18	10	5	15	0.8
15	13	10	5	10	0.8
15	18	10	5	15	0.8
22	13	10	5	10	0.8
22	18	10	5	15	0.8
33	13	10	5	10	0.8
33	18	10	5	15	0.8
47	13	12	6	10	0.8
47	18	11	5	15	0.8
56	18	11	5	15	0.8
68	18	11	5	15	0.8
82	18	12	6	15	0.8
100	13	12	6	10	0.8
100	18	12	6	15	0.8
150	18	13.5	7.5	15	0.8
150	26.5	15	6	22.5	0.8
220	18	14.5	8.5	15	0.8
220	26.5	15	6	22.5	0.8
330	18	18	10	15	0.8
330	26.5	16.5	7	22.5	0.8
470	18	18	9	15	0.8
470	26.5	17	8.5	22.5	0.8
470	32	17	9	27.5	0.8
560	32	20	11	27.5	0.8
680	26.5	17.5	10	22.5	0.8
680	32	20	11	27.5	0.8

C [µF]	Wymiary/Size				
	L	H	T	P±0.5	d±0.08
1	32	20	11	27.5	0.8
1.5	32	25	15	27.5	0.8
2.2	32	30	15	27.5	0.8

Symbol MICROS / MICROS Symbol

KMKP | **10** / **275** / **k10** | **k**

- KMKP — seria / series
- 10 — pojemność / capacity [nF]
- 275 — napięcie / voltage [V]
- k10 — raster / pitch 10mm
- k

seria o pojemności ≥ 1 µF / series of a capacity ≥ 1 µF

KMKPU | **01** / **275** / **k27.5** | **k**

- KMKPU — seria / series
- 01 — pojemność / capacity 01 = 1 [µF]
- 275 — napięcie / voltage [V]
- k27.5 — wymiar / size [mm]
- k

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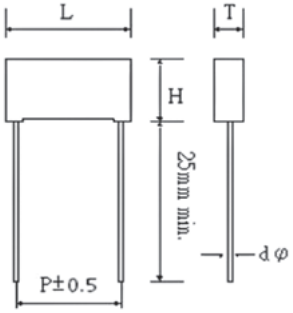


SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-40°C~+110°C
Zakres napięć znamionowych Rated voltage range	275VAC, 310VAC
Zakres pojemności nominalnych Nominal capacitance range	0.0047µF~4.7µF
Tolerancja pojemności Capacitance tolerance	±10%
Współczynnik rozpraszania (10kHz, 25°C) Dissipation factor (10kHz, 25°C)	1% max
Klasa bezpieczeństwa Safety Class	X2
Wytrzymałość dielektryka Withstand Voltage	2000VDC / 1s

Lista elementów / Parts listing

C [nF]	Wymiary/Size				
	L±1.0	H±1.0	T±1.0	P±0.5	d±0.08
1.0	13	11	5	10	0.6
2.2	13	11	5	10	0.6
3.3	13	11	5	10	0.6
4.7	13	11	5	10	0.6
5.6	13	11	5	10	0.6
6.8	13	11	5	10	0.6
8.2	13	11	5	10	0.6
10	13	11	5	10	0.6
10	18	11	5	15	0.8
12	18	11	5	15	0.8
15	18	11	5	15	0.8
18	18	11	5	15	0.8
22	13	11	5	10	0.6
22	18	11	5	15	0.8
27	13	11	5	10	0.6
27	18	11	5	15	0.8
33	13	11	5	10	0.6
33	18	11	5	15	0.8
39	18	11	5	15	0.8
47	13	11	5	10	0.6
47	18	11	5	15	0.8
56	13	11	5	10	0.6
56	18	11	5	15	0.8
68	13	11	5	10	0.6
68	18	11	5	15	0.8
82	13	12	6	10	0.6
82	18	12	6	15	0.8

C [nF]	Wymiary/Size				
	L±1.0	H±1.0	T±1.0	P±0.5	d±0.08
100	18	11	5	15	0.8
100	13	12	6	10	0.6
100	18	12	6	15	0.8
120	18	12	6	15	0.8
150	13	13	7	10	0.6
150	18	13	6.2	15	0.8
150	18	14.5	8.5	15	0.8
180	18	14.5	8.5	15	0.8
220	18	13	6.2	15	0.8
220	18	14.5	8.5	15	0.8
220	18	16	10	15	0.8
220	26.5	16.5	7	22.5	0.8
270	26.5	17	8.5	22.5	0.8
330	18	16	10	15	0.8
330	26.5	17	8.5	22.5	0.8
390	26.5	19	10	22.5	0.8
470	18	16	10	15	0.8
470	26.5	17	8.5	22.5	0.8
470	26.5	19	10	22.5	0.8
470	32	20	11	27.5	0.8
560	18	18.5	11	15	0.8
560	26.5	19	10	22.5	0.8
560	32	20	11	27.5	0.8
680	26.5	19	10	22.5	0.8
680	32	20	11	27.5	0.8
820	18	18.5	11	15	0.8
820	26.5	21.5	12	22.5	0.8
820	32	22	13	27.5	0.8

C [µF]	Wymiary/Size				
	L±1.0	H±1.0	T±1.0	P±0.5	d±0.08
1	26.5	21.5	12	22.5	0.8
1	32	20	11	27.5	0.8
1	32	22	13	27.5	0.8

Symbol MICROS / MICROS Symbol

KMKP | **10** / **310** / **k10**

- KMKP — seria / series
- 10 — pojemność / capacity [nF]
- 310 — napięcie / voltage [V]
- k10 — raster / pitch 10mm

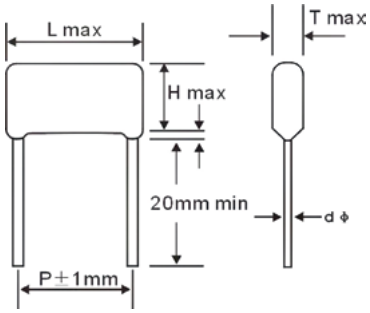
seria o pojemności ≥ 1 µF / series of a capacity ≥ 1 µF

KMKPU | **01** / **310** / **k27.5**

- KMKPU — seria / series
- 01 — pojemność / capacity 01 = 1 [µF]
- 310 — napięcie / voltage [V]
- k27.5 — wymiar / size [mm]

Pełna oferta znajduje się na stronie www.micros.com.pl

Kondensatory polipropylenowe wysokonapięciowe
High voltage polypropylene capacitors

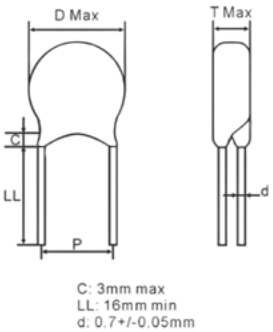


SPECYFIKACJA / SPECIFICATION	
Zakres temperatur pracy / Operating temperature range	-40°C~+105°C
Zakres napięć znamionowych / Rated voltage range	1000VDC, 1250VDC, 1600VDC, 2000VDC
Zakres pojemności nominalnych / Nominal capacitance range	0.001µF~0.18µF
Tolerancja pojemności / Capacitance tolerance	±5%, ±10%
Współczynnik rozpraszania (10kHz, 25°C) / Dissipation factor (10kHz, 25°C)	0.1% max

Lista elementów / Parts listing

VDC µF	1000VDC / 1250VDC				1600VDC				2000VDC			
	L	T	H	P	L	T	H	P	L	T	H	P
0.00047-0.00091	18	6	11	15	18	6	11	15	18	6	11	15
0.001	18	6	12	15	18	6	13	15	18	6	13	15
0.0015	18	6	12	15	18	6	13	15	18	6	14	15
0.0022	18	6	12	15	18	6	13	15	18	6	14	15
0.0027	-	-	-	-	18	6	15	15	-	-	-	-
0.0039	-	-	-	-	18	6	15	15	-	-	-	-
0.0033	18	7	12	15	18	7	16	15	18	8	14	15
0.0047	18	7	12	15	18	8	17	15	18	8	17	15
0.0051/0.0052	-	-	-	-	18	8	17	15	-	-	-	-
0.0056	18	7	12	15	18	8	17	15	18	8	17	15
0.0062~0.0082	18	7	12	15	18	8	17	15	18	7	14	15
0.0091	-	-	-	-	24	9	16	22.5	-	-	-	-
0.01	18	8	15	15	18	8	15	15	24	9	18	22.5
0.011~0.012	24	10	19	22.5	24	10	19	22.5	24	10	19	22.5
0.013~0.016	24	12	20	22.5	24	11	19	22.5	24	13	24	22.5
0.022	24	14	22	22.5	24	14	22	22.5	-	-	-	-

Kondensatory przeciwzakłóceniowe X1, Y1 i X1, Y2
Safety standard capacitors X1, Y1 and X1, Y2



SPECYFIKACJA / SPECIFICATION	KCY1	KCY2
Zakres temperatur pracy / Operating temperature range	-25°C~+85°C	
Zakres napięć znamionowych / Rated voltage range	400VDC	250VDC
Zakres pojemności nominalnych / Nominal capacitance range	100pF-10000pF	
Tolerancja pojemności / Capacitance tolerance	Y5P ±10%; Y5V ±20%	
Współczynnik rozpraszania (10kHz, 25°C) / Dissipation factor (10kHz, 25°C)	2.5% max	
Klasa bezpieczeństwa / Safety Class	X1, Y1	X1, Y2

Lista elementów / Parts listing

Y1 400VAC

Pojemność/Capacitance [pF]	Tolerancja Tolerance	Wymiary/Dimensions [mm]		
		D max	F	T max
10pF do/to 82pF	K±10%	6.5	9.5 lub/or 10±0.8	6
			9.5 lub/or 10±0.8	6
			9.5 lub/or 10±0.8	6
100pF		6.8	9.5 lub/or 10±0.8	6
150pF		6.8	9.5 lub/or 10±0.8	6
220pF		6.8	9.5 lub/or 10±0.8	6
330pF		7.2	9.5 lub/or 10±0.8	6
470pF		8.8	9.5 lub/or 10±0.8	6
560pF		8.8	9.5 lub/or 10±0.8	6
680pF		9.8	9.5 lub/or 10±0.8	6
1000pF		10.0	9.5 lub/or 10±0.8	6
1000pF	M±20%	6.8	9.5 lub/or 10±0.8	6
1500pF		7.8	9.5 lub/or 10±0.8	6
2200pF		8.5	7.5 lub/or 10±0.8	6
3300pF		10.2	9.5 lub/or 10±0.8	6
3900pF		11.5	9.5 lub/or 10±0.8	6
4700pF		11.5 lub/or 12.5	9.5 lub/or 10±0.8	6

Y2 250VAC

Pojemność/Capacitance [pF]	Tolerancja Tolerance	Wymiary/Dimensions [mm]		
		D max	T max	P±1
100pF~330pF	±10%	7	5	7.5
470pF		7	5	7.5
680pF		10	5	7.5
1000pF		10	5	7.5
1000pF	±20%	8	5	7.5
1500pF		9	5	7.5
2200pF		10	5	7.5
3300pF		12	5	10
4700pF		14	5	10
1000pF	±20%	8	5	7.5
1500pF		9	5	7.5
2200pF		8	5	7.5
3300pF		9	5	7.5
4700pF		11	5	7.5
0.01µF		14	5	10

Kondensatory ceramiczne 25V, 50V
Disc ceramic capacitors 25V, 50V

SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-25°C~+85°C
Zakres napięć znamionowych Rated voltage range	25VDC, 50VDC
Zakres pojemności nominalnych Nominal capacitance range	0.5pF~100nF
Tolerancja pojemności Capacitance tolerance	≥10000MΩ

Symbol MICROS / MICROS Symbol

KC	1.0	/	50	/	2.5
seria series	pojemność capacity [pF]		napięcie voltage [V]		raster pitch [mm]

KCN	1.0	/	50	/	2.5
seria series	pojemność capacity [nF]		napięcie voltage [V]		raster pitch [mm]

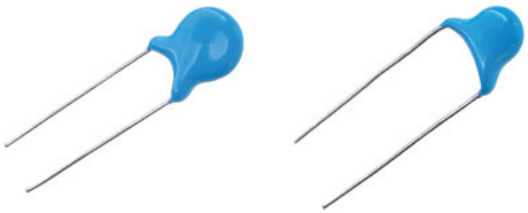
Kondensatory ceramiczne 100V
Disc ceramic capacitors 100V

SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-25°C~+85°C
Zakres napięć znamionowych Rated voltage range	100VDC
Zakres pojemności nominalnych Nominal capacitance range	1pF~100nF
Rezystancja izolacji Insulation resistance	≥10000MΩ

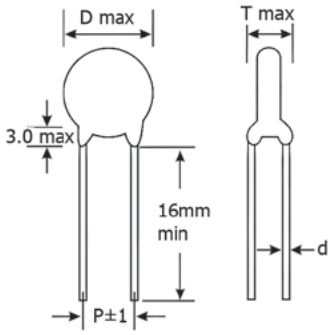
Symbol MICROS / MICROS Symbol

KC	100	/	100	/	5
seria series	pojemność capacity [pF]		napięcie voltage [V]		raster pitch [mm]

KCN	4.7	/	100	/	5
seria series	pojemność capacity [nF]		napięcie voltage [V]		raster pitch [mm]



SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-25°C~+85°C
Zakres napięć znamionowych Rated voltage range	1kV, 3kV
Zakres pojemności nominalnych Nominal capacitance range	1.0pF~10nF
Rezystancja izolacji Insulation resistance	>1000MΩ lub/or 200MΩ (mniejsza wartość/whichever is smaller)



Lista elementów / Parts listing

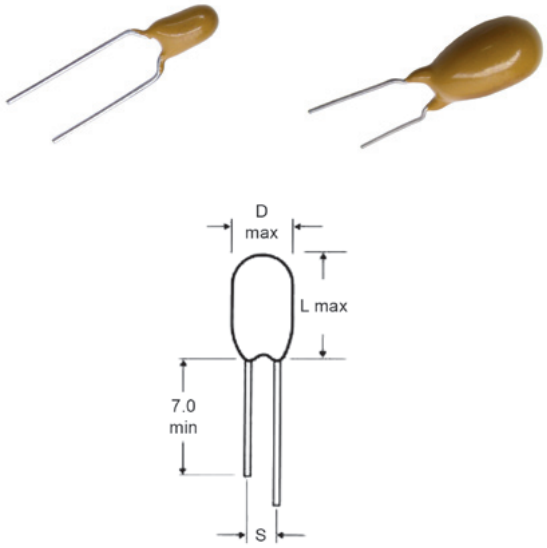
Symbol	D	T	d
	mm		
KC 1.0k1.0/5	7	4	0.5
KC 1.0k3.0/7.5	7	4	0.6
KC 1.5k1.0/5	7	4	0.5
KC 1.5k3.0/7.5	7	4	0.6
KC 2.2k1.0/5	7	4	0.5
KC 2.2k3.0/7.5	7	4	0.6
KC 3.3k1.0/5	7	4	0.5
KC 3.3k3.0/7.5	7	4	0.6
KC 4.7k1.0/5	7	4	0.5
KC 4.7k3.0/7.5	7	4	0.6
KC 6.8k1.0/5	7	4	0.5
KC 6.8k3.0/7.5	7	4	0.6
KC 10k1.0/5	7	4	0.5
KC 10k3.0/7.5	7	4	0.6
KC 15k1.0/5	7	4	0.5
KC 15k3.0/7.5	7	4	0.6
KC 22k1.0/5	7	4	0.5
KC 22k3.0/7.5	7	4	0.6
KC 33k1.0/5	7	4	0.5
KC 33k3.0/7.5	7	4	0.6
KC 47k1.0/5	7	4	0.5
KC 47k3.0/7.5	7	4	0.6
KC 68k1.0/5	7	4	0.5
KC 68k3.0/7.5	7	4	0.6
KC100k1.0/5	7	4	0.5
KC100k3.0/7.5	8	4	0.6
KC150k1.0/5	7	4	0.5
KC150k3.0/7.5	8	4	0.6

Symbol	D	T	d
	mm		
KC220k1.0/5	7	4	0.5
KC220k3.0/10	8	4	0.6
KC220k3.0/5	8	4	0.6
KC220k3.0/7.5	8	4	0.6
KC330k1.0/5	7	4	0.5
KC330k3.0/7.5	8	4	0.6
KC470k1.0/5	7	4	0.5
KC470k3.0/7.5	8	4	0.6
KC680k1.0/5	7	4	0.5
KC680k3.0/7.5	10	5	0.6
KCN 1.0k1.0/5	8	4	0.5
KCN 1.0k3.0/5	10	5	0.6
KCN 1.0k3.0/7.5	10	5	0.6
KCN 1.5k1.0/5	8	4	0.5
KCN 1.5k3.0/7.5	8	4	0.6
KCN 2.2k1.0/5	8	4	0.5
KCN 2.2k1.0/7.5	12	4	0.6
KCN 2.2k3.0/7.5	11	5	0.6
KCN 3.3k1.0/5	8	4	0.5
KCN 3.3k3.0/7.5	10	5	0.6
KCN 4.7k1.0/5	8	4	0.5
KCN 4.7k1.0/7.5	13	4	0.6
KCN 4.7k3.0/7.5	12	5	0.6
KCN 6.8k1.0/5	10	4	0.5
KCN 6.8k3.0/10	13	5	0.6
KCN 10k1.0/5	10	4	0.5
KCN 10k3.0/10	15	5	0.7
KCN 10k3.0/7.5	15	5	0.7

Symbol MICROS / MICROS Symbol

KC	2.2	/	k1.0	/	5
seria series	pojemność capacity [pF]		napięcie voltage [V]		raster pitch [mm]

KCN	1.0	/	k1.0	/	5
seria series	pojemność capacity [nF]		napięcie voltage [V]		raster pitch [mm]



SPECYFIKACJA / SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-55°C~+125°C
Zakres napięć znamionowych Rated voltage range	10V~50V
Zakres pojemności nominalnych Nominal capacitance range	0.1µF~220µF
Tolerancja pojemności Capacitance tolerance	±20%
Prąd upływu Leakage current	$I_O \leq 0.02\ C_R U_R$ lub/or 1µF (większa wartość/whichever is greater)

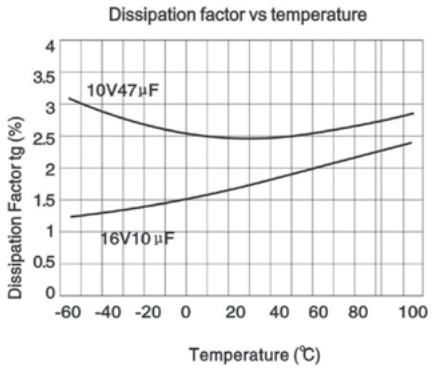
Obudowa Case	D (max)	L (max)	S (±1mm)	d (±0.05mm)
	mm			
A	4.5	7.0	2.54	0.5
B	5.0	8.0	2.54	0.5
C	5.5	9.5	2.54	0.5
D	6.5	11.0	2.54	0.5
E	8.5	13.0	5.08	0.5
F	9.5	16.5	5.08	0.5

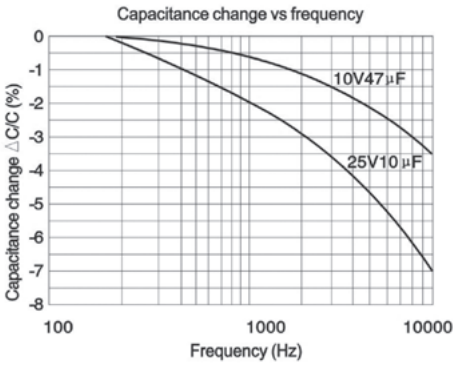
Lista elementów / Parts listing

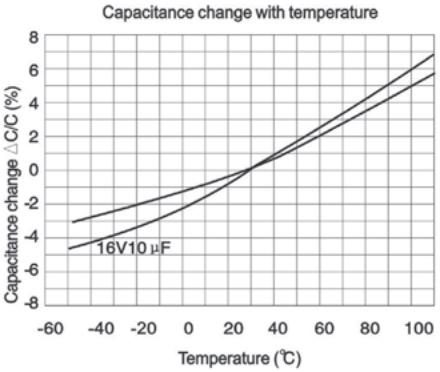
Pojemność Capacitance (µF)	0.047	0.068	0.1	0.15	0.22	0.33	0.47	0.68	1.0	1.5	2.2	3.3	4.7	6.8	10	15	22	33	47	68	100	150	220	330	470	680
Napięcie znamionowe Rated voltage (V)	Wymiar obudowy Case size																									
3													A	A	A	A	B	B	C	D	D	D	E	E	F	F
4													A	A	A	A	B	B	C	D	D	E	E	F		
6.3												A	A	A	B	B	C	C	D	D	E	E	E	F		
10											A	A	A	B	B	C	C	D	D	D	E	E	F			
16									A	A	A	A	B	B	B	C	C	D	D	E	E	F				
20									A	A	A	B	B	C	C	D	D	E	E	F	F					
25									A	A	A	B	B	C	C	D	D	E	E	F	F					
35	A	A	A	A	A	A	A	A	A	A	B	B	C	D	D	E	E	F	F							
50	A	A	A	A	A	A	A	A	B	C	C	D	D	E	E	F	F									

Charakterystyka temperaturowa / Temperature characteristics

Pojemność Capacitance (µF)	Zmiana pojemności Capacitance change (%)			DF Max. (%)				DCL Max. (µA)		
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+25°C	+85°C	+125°C
≤1.0	±10	±15	±25	6	4	6	6	Io≤ 0.02 $C_r U_r$ lub/or 1µA większa wartość/ whichever is greater	+10 I_O	+12.5I_O
1.5~68				8	6	8	8			
10~68				10	8	10	10			
100~220				12	10	12	12			





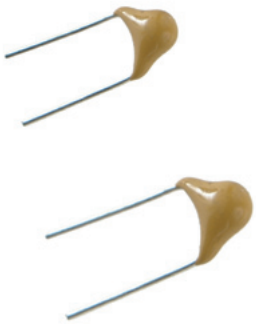


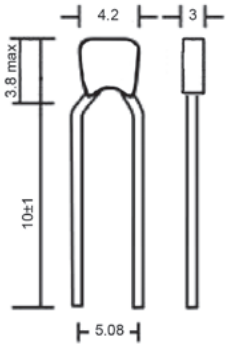
Symbol MICROS / MICROS Symbol

KT	0.1	/	35
seria series	pojemność capacity [µF]		napięcie voltage [V]

Kondensatory monolityczne przewlekane
Multilayer ceramic capacitors radial type

Suntan®





SPECYFIKACJA / SPECIFICATION			
Dielektryk / Dielectric	COG (NP0)	X7R	Y5V
Napięcie znamionowe / Rated voltage	50V, 63V, 100V	50V, 63V, 100V	50V, 63V, 100V
Zakres pojemności nominalnych / Nominal capacitance range	10pF~10nF	100pF~1µF	10nF~1µF
Tolerancja / Tolerance	±5%	±10%	±20%
Temperatura pracy / Operating temperature	0±30ppm/°C -55°C~+125°C	±15% -55°C~+125°C	+30%~-80% -25°C~+85°C

Na zamówienie kondensatory z rastrem 2.54mm oraz na napięcia 25V, 63V i 100V
Capacitors with pitch 2.54mm and voltage 25V, 63V, 100V on special request

Symbol MICROS / MICROS Symbol

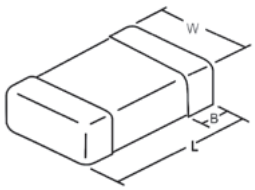
KCM	10	/	50	/	5	c	j
seria / series	pojemność / capacity [pF]		napięcie / voltage [V]		raster / pitch [mm]	dielektryk / dielectric c=C0G x=X7R/X5R	tolerancja / tolerance [%] j=5% k=10%

KCMN	1.0	/	50	/	5	c	j
seria / series	pojemność / capacity [nF]		napięcie / voltage [V]		raster / pitch [mm]	dielektryk / dielectric c=C0G x=X7R/X5R y=Y5V	tolerancja / tolerance [%] j=5% k=10% m=20%

KCMU	1	/	50	/	5	x	k
seria / series	pojemność / capacity [µF]		napięcie / voltage [V]		raster / pitch [mm]	dielektryk / dielectric c=C0G x=X7R/X5R y=Y5V	tolerancja / tolerance [%] j=5% k=10% m=20%

Kondensatory monolityczne SMD
Multilayer chip ceramic capacitors

CCTC 三环集团



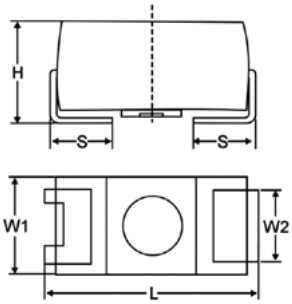
SPECYFIKACJA / SPECIFICATION				
Dielektryk / Dielectric	COG (NP0)	X5R	X7R	Y5V
Napięcie znamionowe / Rated voltage	16V, 25V, 50V, 100V	6.3V, 10V, 16V, 25V, 50V	10V, 16V, 25V, 50V, 100V	10V, 16V, 25V, 50V
Zakres pojemności nominalnych / Nominal capacitance range	1pF~1.5nF	100nF~10µF	100pF~220nF	10nF~100nF
Tolerancja / Tolerance	±0.1pF, ±0.25pF, ±0.5pF, ±5%	±5%, ±10%, ±20%	±5%, ±10%, ±20%	±20%, -20%~+80%
Współczynnik temperatury / Temperature coefficient	0±30ppm/°C	±15%	±15%	-80°C~+30°C
Temperatura pracy / Operating temperature	-55°C~+125°C	-55°C~+125°C	-55°C~+125°C	-25°C~+85°C

Symbol MICROS / MICROS Symbol

K2S	1.0	/	50	c	k
obudowa / case K2S=0402 K3S=0603 K5S=0805 K6S=1206 K10S=1210 K12S=1812	pojemność / capacity [pF, nF, µF]		napięcie / voltage [V]	dielektryk / dielectric c=C0G x=X7R X5R=x5v y=Y5V	tolerancja / tolerance [%] b=0.10pF c=0.25pF d=0.5pF f=1% j=5% k=10% m=20%

Obudowa / Case	L	W	B	Zakres pojemności / Capacitance range			
	mm			COG	X5R	X7R	Y5V
0402	1.0	0.5	0.15~0.30	0R5~102	101~475	101~475	102~105
0603	1.6	0.8	0.20~0.50	0R5~103	101~475	101~475	222~475
0805	2.00	1.25	0.25~0.75	0R5~333	101~106	101~106	103~106
1206	3.20	1.6	0.30~0.80	0R5~104	101~226	101~226	103~106
1210	3.20	2.50	0.85~2.50	472~473	104~476	104~476	106~107

Kondensatory tantalowe SMD
Chip tantalum capacitors



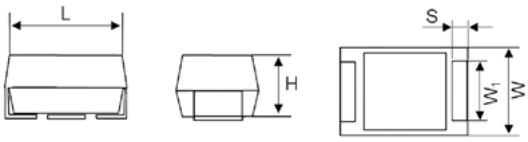
SPECYFIKACJA / SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-55°C~+125°C
Zakres napięć znamionowych Rated voltage range	6.3V~50V
Zakres pojemności nominalnych Nominal capacitance range	0.1µF~470µF

Obudowa / Case		L ±0.3	W1 ±0.3	H ±0.3	S ±0.3	W2
		mm				
A	3216	3.2	1.6	1.6	0.8	1.2
B	3528	3.5	2.8	1.9	0.8	2.2
C	6032	6.0	3.2	2.6	1.3	2.2
D	7343	7.3	4.3	2.9	1.3	2.4

Symbol MICROS / MICROS Symbol

KTSA	0.10	/	35	k
obudowa case KTSA=A KTSB=B KTSC=C KTSD=D	pojemność capacity [µF]		napięcie voltage [V]	tolerancja tolerance [%] k=10% m=20%

Kondensatory tantalowe SMD niskoimpedancyjne
Low ESR chip tantalum capacitors



SPECYFIKACJA / SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-55°C~+125°C
Zakres napięć znamionowych Rated voltage range	±10%
Zakres pojemności nominalnych Nominal capacitance range	0.33µF~470µF
Tolerancja pojemności Capacitance tolerance	±20%
Prąd upływu Leakage current	$I_O \leq 0.01 C_R U_R$ lub/or 0.5mA (większa wartość/whichever is greater)

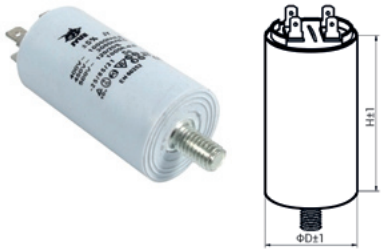
Symbol MICROS / MICROS Symbol

KTLSA	0.33	/	25	m
obudowa case KTLSA=A KTLSB=B KTLSC=C KTLSD=D KTLSE=E	pojemność capacity [µF]		napięcie voltage [V]	tolerancja tolerance [%] k=10% m=20%

Obudowa / Case	L	W	H	S	W_1
	mm				
A	3.2 ±0.2	1.6 ±0.2	1.6 ±0.2	0.8 ±0.3	1.2 ±0.1
B	3.5 ±0.2	2.8 ±0.2	1.8 ±0.2	0.8 ±0.3	2.2 ±0.1
C	6.0 ±0.3	3.2 ±0.3	2.5 ±0.3	1.3 ±0.3	2.2 ±0.1
D	7.3 ±0.3	4.3 ±0.3	2.8 ±0.3	1.3 ±0.3	2.4 ±0.1
E	7.3 ±0.3	4.3 ±0.3	4.0 ±0.3	1.3 ±0.3	2.4 ±0.1

SPECYFIKACJA SPECIFICATION	KS	KSP	KSC
Zakres temperatur pracy Operating temperature range	-40°C~+70°C		
Zakres napięć znamionowych Rated voltage range	450VAC		
Zakres pojemności nominalnych Nominal capacitance range	0.5µF~150µF		0.5µF~40µF
Współczynnik rozpraszania (10kHz, 20°C) Dissipation factor (10kHz, 20°C)	≤ 0.0025 / 100Hz		
Tolerancja pojemności Capacitance tolerance	±5%	±10%	
Sposób mocowania Mouting	Śruba M8, konektory: 6.3×0.8mm M8 screw, leads 6.3×0.8mm	Śruba M8, przewód o średnicy 2.8mm M8 screw, wires 2.8mm diameter	Przewody o średnicy 2.2-2.4mm wires diameter 2.2-2.4mm

Seria KS / KS Series

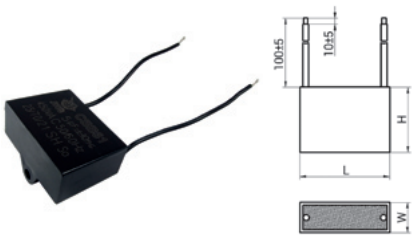


Pojemność Capacitance [µF]	Wymiary Dimensions [mm]
0.5	30×49
1	26×55
1.5	30×57
2	30×57
2.5	30×57
3	30×57
3.5	30×57
4	30×57
4.5	30×57
5	30×57
6	35×60.5
8	35×65
10	35×65
12	35×65
14	40×70
16	40×70
18	40×70
20	40×70
25	40×95
30	40×95
35	45×95
40	45×95
50	50×106
60	50×115
80	55×120
100	60×120
120	65×130
150	65×130

Seria KSP / KSP Series

Pojemność Capacitance [µF]	Wymiary Dimensions [mm]
0.5	26×53
1	30×57
1.5	30×57
2	30×60
2.5	30×57
3	30×57
3.5	30×50
4	30×57
4.5	30×60
5	30×60
6	30×57
8	35×60
10	35×60
12	35×60
14	40×70
16	40×70
18	40×70
20	40×70
25	40×78
30	40×95
35	40×95
40	40×95
50	50×115
60	50×115
80	50×120
100	60×120
120	65×130
150	65×130

Seria KSC / KSC Series



Pojemność Capacitance [µF]	Wymiary Dimensions [mm]
0.5	37×23×13
0.8	37×23×13
1	37×23×13
1.2	37×23×13
1.5	37×25×14
1.8	38×27×14.5
2	37×28×16
2.5	37×28×18
3	38×28×17
4	47×29×18
5	47×34×18
6	47×34×22
8	48×38×26
10	50×30×40
20	58×35×49
25	70×38×53
30	70×38×53
35	70×38×52
40	70×38×52

Symbol MICROS / MICROS Symbol

KS	1	/	450	
seria series	pojemność capacity [µF]		napięcie voltage [V]	

KSP	1	/	450	
seria series	pojemność capacity [µF]		napięcie voltage [V]	

KSC	0.5	/	450	
seria series	pojemność capacity [µF]		napięcie voltage [V]	

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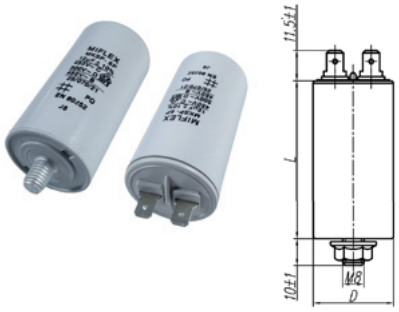
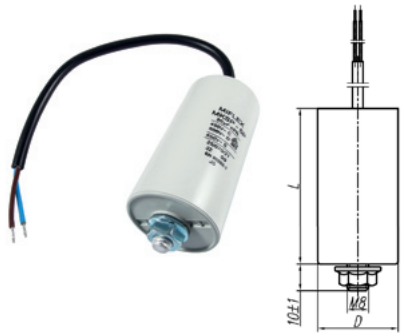
SPECYFIKACJA / SPECIFICATION	KS	KSP	KSPC	KSPG	KSO	KSC
Typ Type	MKSP-5P				MKSP-6P	MKSP-8P
Pojemność znamionowa Rated capacitance	0,68µF~100µF				2µF~100µF	0,5µF~6µF
Tolerancja pojemności Capacitance tolerance	5±% lub/or 10±%				5±%	5±% lub/or 10±%
Napięcie znamionowe Rated volted	450V 500V 250V				400V 450V	400V 450V
Czas życia Life time	10000/B 1000/D 10000/B				10000/B 3000/C	3000/C 1000/D
Kategoria klimatyczna Climatic category	25/070/21				25/085/21 25/070/21	25/085/21 25/070/21
Materiał i kształt obudowy Case material and shape	tworzywo, cylindryczny plastic, round					tworzywo, prostopadłościan plastic, box
Klasa bezpieczeństwa Safety class	S0					

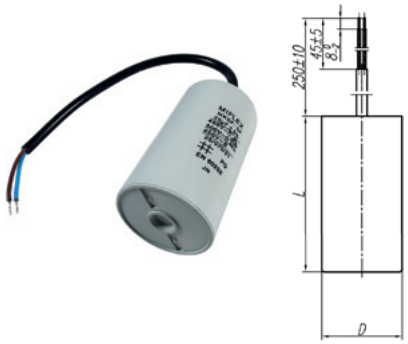
Seria KS / KS Series



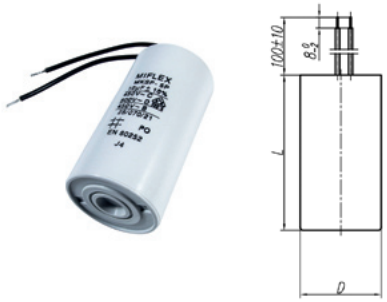
Seria KSP / KSP Series



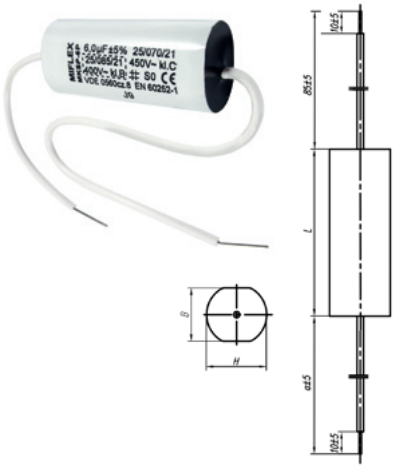
Seria KSPC / KSPC Series



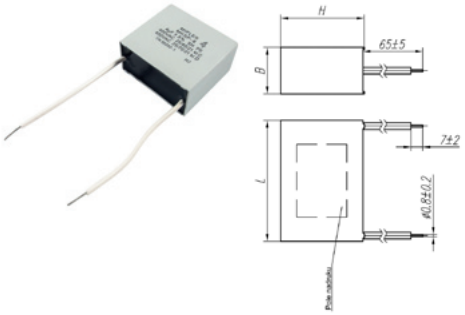
Seria KSPG / KSPG Series



Seria KSO / KSO Series



Seria KSC / KSC Series

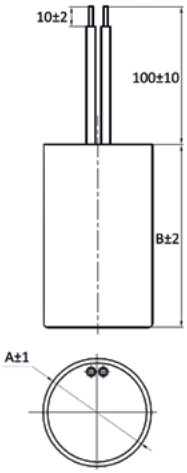


Symbol MICROS / MICROS Symbol

KS	1	/	450	-M			
seria series	pojemność capacity [µF]		napięcie voltage [V]	produkt product MIFLEX			
KSP	1	/	450	-M			
seria series	pojemność capacity [µF]		napięcie voltage [V]	produkt product MIFLEX			
KSPC	1	/	450	-M			
seria series	pojemność capacity [µF]		napięcie voltage [V]	produkt product MIFLEX			
KSPG	1	/	450	-M			
seria series	pojemność capacity [µF]		napięcie voltage [V]	produkt product MIFLEX			
KSC	1	/	450	-M			
seria series	pojemność capacity [µF]		napięcie voltage [V]	produkt product MIFLEX			

Pełna oferta znajduje się na stronie www.micros.com.pl

SPECYFIKACJA SPECIFICATION	KLWP
Zakres temperatur pracy Operating temperature range	-40°C~85°C
Zakres napięć znamionowych Rated voltage range	400VAC
Zakres pojemności nominalnych Nominal capacitance range	6µF~36µF
Współczynnik rozpraszania (10kHz, 20°C) Dissipation factor (10kHz, 20°C)	≤ 0.0025 / 100Hz
Tolerancja pojemności Capacitance tolerance	±10%
Sposób mocowania Mouting	2 przewody o długości 100mm 2 wires with a length 100mm)



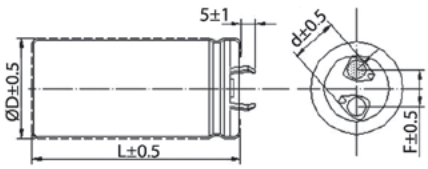
Pojemność Capacitance [µF]	Wymiary Dimensions [mm]
6µF	30×60
8µF	35×60.5
10µF	35×60.5
12µF	35×71
16µF	40×68
20µF	40×68
22µF	40×80
24µF	40×80
26µF	40×93
28µF	40×93
30µF	45×75
32µF	45×85
34µF	45×85
36µF	45×85

Symbol MICROS / MICROS Symbol

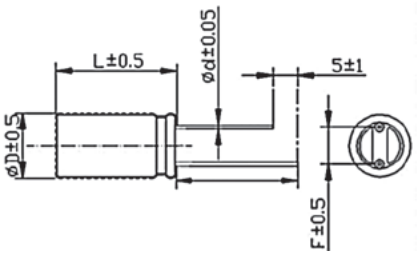
KLWP	6	/	400
seria series	pojemność capacity [nF]		napięcie voltage [V]

Seria HP LR / HP LR Series

Symbol Part No.	Pojemność Capacitance [F]	Wymiary Dimensions [mm]
KGHP 0.35F/2.7	0.35F	5×12mm
KGHP 0.5F/2.7	0.5F	6.3×13mm
KGHP 0.7F/2.7	0.7F	8×13.5mm
KGHP 1.0F/2.7	1.0F	8×13.5mm
KGHP 2.0F/2.7	2.0F	8×20mm
KGHP 3.3F/2.7	3.3F	10×20mm
KGHP 4.7F/2.7	4.7F	12.5×21mm
KGHP 8F/2.7	8F	12.5×21mm
KGHP 10F/2.7	10F	12.5×26mm
KGHP 12F/2.7	12F	12.5×34mm
KGHP 15F/2.7	15F	16×26.5mm
KGHP 20F/2.7	20F	16×35mm
KGHP 25F/2.7	25F	16×35mm
KGHP 30F/2.7T	30F	16×35mm
KGHP 50F/2.7T	50F	18×42mm
KGHP 60F/2.7T	60F	18×42mm
snap-in		
KGHP 90F/2.7L	90F	22×46mm
KGHP100F/2.7L	100F	22×46mm
KGHP120F/2.7L	120F	25.5×55mm
KGHP150F/2.7L	150F	25.5×55mm
KGHP200F/2.7L	200F	35×62mm
KGHP300F/2.7L	300F	35×62mm
KGHP360F/2.7L	360F	35×62mm
KGHP400F/2.7L	400F	35×62mm

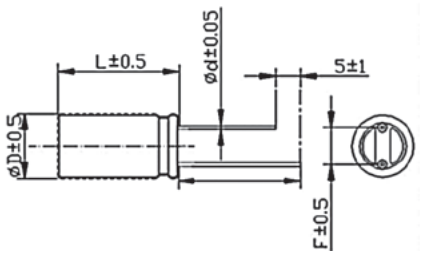


SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-40..+70°C
Zakres napięć znamionowych Rated voltage range	2.7V
Zakres pojemności nominalnych Nominal capacitance range	0.35..100F
Tolerancja pojemności Capacitance tolerance	-20..+80%



Seria HP LL / HP LL Series

Symbol Part No.	Pojemność Capacitance [F]	Wymiary Dimensions [mm]
KGHP 0.35F/2.7T	0.35F	5×12mm
KGHP 0.7F/2.7T	0.7F	8×13.5mm
KGHP 1.0F/2.7T	1.0F	8×13.5mm
KGHP 2.0F/2.7T	2.0F	8×20mm
KGHP 3.3F/2.7T	3.3F	10×20mm
KGHP 4.7F/2.7T	4.7F	12.5×21mm
KGHP 8F/2.7T	8F	12.5×21mm
KGHP 10F/2.7T	10F	12.5×26mm
KGHP 12F/2.7T	12F	12.5×34mm
KGHP 15F/2.7T	15F	16×26.5mm
KGHP 20F/2.7T	20F	16×35mm
KGHP 25F/2.7T	25F	16×35mm
KGHP 30F/2.7T	30F	16×35mm
KGHP 50F/2.7T	50F	18×42mm
KGHP 60F/2.7T	60F	18×42mm



SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-40..+70°C
Zakres napięć znamionowych Rated voltage range	2.7V
Zakres pojemności nominalnych Nominal capacitance range	0.35..25F
Tolerancja pojemności Capacitance tolerance	-20..+80%

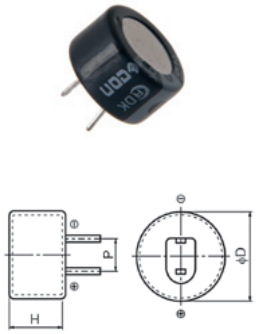
Seria SE D / SE D Series

Symbol Part No.	Pojemność Capacitance	Wymiary [mm] Dimensions
KG 0.1F/5.5h	0.1F	12×6.5
KG 0.1F/5.5v	0.1F	11.2×4.5×12.3
KG 0.1F/5.5c	0.1F	13.5×6.5
KG 0.22F/5.5h	0.22F	11×6.5
KG 0.22F/5.5v	0.22F	11.2×4.5×12.3
KG 0.22F/5.5c	0.22F	13.5×6.5
KG 0.33F/5.5h	0.33F	11×6.5
KG 0.33F/5.5v	0.33F	11.2×5.0×12.3
KG 0.33F/5.5c	0.33F	13.5×6.5

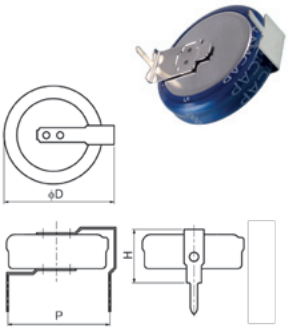
Symbol Part No.	Pojemność Capacitance	Wymiary [mm] Dimensions
KG 0.47F/5.5h	0.47F	19.5×5.5
KG 0.47F/5.5v	0.47F	18.7×4.7×20
KG 1.0F/5.5h	1F	19.5×5.5
KG 1.0F/5.5v	1F	18.7×5.1×20
KG 1.0F/5.5c	1F	20.5×7.5
KG 1.5F/5.5h	1.5F	19.5×5.5
KG 1.5F/5.5v	1.5F	18.7×5.1×20
KG 1.5F/5.5c	1.5F	20.5×7.5

SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-25°C~+70°C
Zakres napięć znamionowych Rated voltage range	5.5V
Zakres pojemności nominalnych Nominal capacitance range	0.1F~1.5F
Tolerancja pojemności Capacitance tolerance	-20..+80%

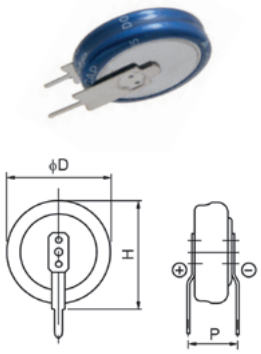
typ c / c type



typ h / h type

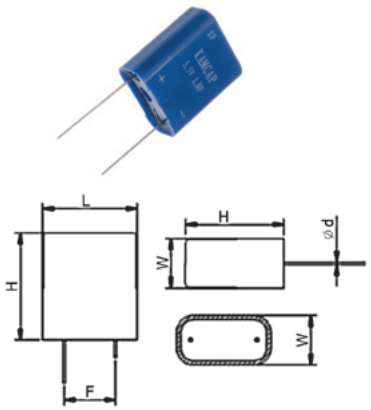


typ v / v type



Seria SE Z / SE Z Series

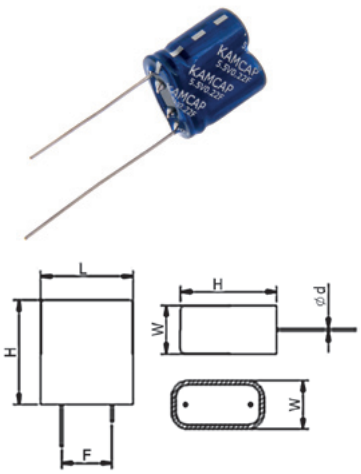
Symbol Part No.	Pojemność Capacitance	Wymiary Dimensions [mm]
KGB 0.22F/5.5	0.22F	18×18.1×9.6
KGB 0.33F/5.5	0.33F	18×18.1×9.6
KGB 0.47F/5.5	0.47F	18×18.1×9.6
KGB 1.0F/5.5	1F	25.5×20.5×11.5
KGB 1.5F/5.5	1.5F	25.5×18.1×9.6
KGB 1.5F/5.5R	1.5F	25.5×20.5×11.5



SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-25°C~+70°C
Zakres napięć znamionowych Rated voltage range	5.5V
Zakres pojemności nominalnych Nominal capacitance range	0.22F~1.5F
Tolerancja pojemności Capacitance tolerance	-20..+80%

Seria SP Z / SP Z Series

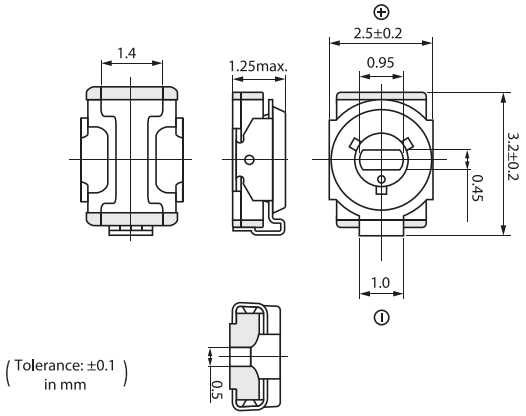
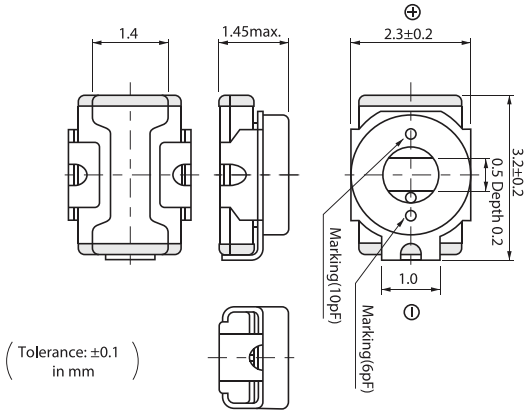
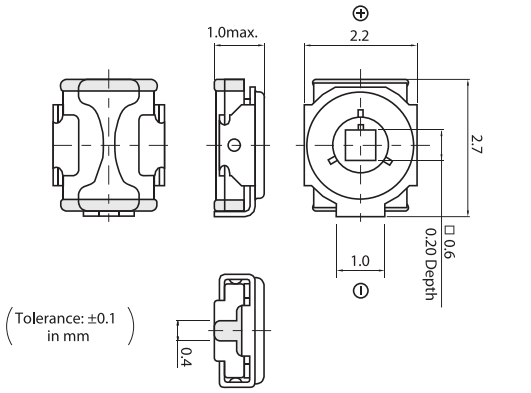
Symbol Part No.	Pojemność Capacitance	Wymiary Dimensions [mm]
KGB 0.22F/5.5t	0.22F	18×18.1×9.6
KGB 0.33F/5.5t	0.33F	18×18.1×9.6
KGB 0.47F/5.5t	0.47F	18×18.1×9.6
KGB 1.0F/5.5t	1F	25.5×20.5×11.5
KGB 1.5F/5.5t	1.5F	25.5×18.1×9.6
KGB 1.5F/5.5Rt	1.5F	25.5×20.5×11.5



SPECYFIKACJA SPECIFICATION	
Zakres temperatur pracy Operating temperature range	-40..+70°C
Zakres napięć znamionowych Rated voltage range	2.7V
Zakres pojemności nominalnych Nominal capacitance range	0.22..1.5F
Tolerancja pojemności Capacitance tolerance	-20..+80%



Symbol Part No.	C (pF)		U (VDC)	Współczynnik temperaturowy Temp. coefficient	Q min (1MHz, C_{MAX})	Rysunek techniczny Dimensions drawing
	min	max				
KCT 1.3-03.0	1.3	3.0	100	NP 0±200ppm/°C	500	
KCT 2.3-05.0	2.3	5.0	100	NP 0±250ppm/°C	500	
KCT 2.5-07.0	2.5	7.0	100	NP 0±250ppm/°C	500	
KCT 3.0-10.0	3.0	10.0	100	N 450±300ppm/°C	500	
KCT 4.5-20.0	4.5	20.0	100	N 750±300ppm/°C	500	
KCT 6.0-30.0	6.0	30.0	100	N 1000±500ppm/°C	500	
KCT 8.0-40.0	8.0	40.0	100	N 1200±500ppm/°C	300	
KCT10.0-50.0	10.0	50.0	100	N 1200±500ppm/°C	200	
KCT12.0-60.0	12.0	60.0	100	N 1200±800ppm/°C	200	
KCT14.0-70.0	14.0	70.0	50	N 2200±800ppm/°C	200	
KCT26.0-90.0	26.0	90.0	50	N 2200±800ppm/°C	200	
KCT5 1.3-3.0	1.3	3.0	100	NP0 ±250 ppm/°C	500	
KCT5 2.0-5.0	2.0	5.0	100	NP0 ±250 ppm/°C	500	
KCT5 3.0-10.0	3.0	10.0	100	N450 ±300 ppm/°C	500	
KCT5 4.2-20.0	4.2	20.0	100	N450 ±300 ppm/°C	500	
KCT5 5.2-30.0	5.2	30.0	100	N750 ±300 ppm/°C	500	
KCT5 6.8-40.0	6.8	40.0	100	N1200 ±500 ppm/°C	300	
KCT5 9.0-50.0	9.0	50.0	100	N1200 ±500 ppm/°C	200	
KCT5 11.0-60.0	11.0	60.0	100	N1200 ±500 ppm/°C	200	
KCT5 13.0-70.0	13.0	70.0	100	N1200 ±500 ppm/°C	200	
KCT5 13.0-90.0	13.0	90.0	100	N1200 ±500 ppm/°C	200	
KCT6 2.0-5.0	2.0	5.0	200	NP0 ±200 ppm/°C	500	
KCT6 3.0-10.0	3.0	10.0	200	N470 ±300 ppm/°C	500	
KCT6 4.2-20.0	4.2	20.0	200	N450 ±300 ppm/°C	500	
KCT6 6.2-30.0	6.2	30.0	200	N750 ±500 ppm/°C	500	
KCT6 6.8-40.0	6.8	40.0	200	N1200 ±500 ppm/°C	300	
KCT6 9.8-50.0	9.8	50.0	200	N1200 ±500 ppm/°C	300	
KCT6 10.2-60.0	10.2	60.0	200	N1200 ±500 ppm/°C	200	
KCT7 2.0-5.0	2.0	5.0	100	NP0 ±200 ppm/°C	300	
KCT7 2.5-10.0	2.5	10.0	100	NP0 ±200 ppm/°C	300	
KCT7 3.0-20.0	3.0	20.0	100	N470 ±200 ppm/°C	300	
KCT7 4.5-30.0	4.5	30.0	100	N550 ±300 ppm/°C	300	
KCT7 6.0-50.0	6.0	50.0	100	N1400 ±300 ppm/°C	300	
KCT7 8.5-70.0	8.5	70.0	100	N2200 ±300 ppm/°C	200	
KCT7 12.0-100.0	12.0	100.0	100	N2200 ±300 ppm/°C	200	
KCTS3 1.7-3.0	1.7	3.0	100	NP0 ±300 ppm/°C	500	
KCTS3 2.5-6.0	2.5	6.0	100	NP0 ±300 ppm/°C	500	
KCTS3 3.5-10.0	3.5	10.0	100	N750 ±300 ppm/°C	500	
KCTS3 5.5-20.0	5.5	20.0	100	N1200 ±500 ppm/°C	300	
KCTS3 7.5-30.0	7.5	30.0	100	N1800 ±500 ppm/°C	300	
KCTS3S 1.5-3.0	1.7	4.0	100	NPO ±300 ppm/°C	300	
KCTS3S 2.0-6.0	2.0	6.0	100	NPO ±200 ppm/°C	500	
KCTS3S 3.0-10.0	3.0	10.0	100	N600 ±400 ppm/°C	700	
KCTS3S 5.0-20.0	5.5	20.0	100	N900 ±400 ppm/°C	500	

Symbol Part No.	C (pF)		U (VDC)	Współczynnik temperaturowy Temp. coefficient	Q min (1MHz, C_{MAX})	Rysunek techniczny Dimensions drawing
	min	max				
KCTZY2Z2R5A001R00	0.65	2.5	25VDC	NP0±300ppm/°C	200MHz	
KCTZY2Z030A001R00	1.5	3.0	25VDC	NP0±300ppm/°C	1MHz	
KCTZY2Z060A001R00	2.5	6.0	25VDC	NP0±300ppm/°C	1MHz	
KCTZY2Z100A001R00	3.0	10	25VDC	NP0±300ppm/°C	1MHz	
KCTZY2R200A001R00	4.5	20	25VDC	N750±500ppm/°C	1MHz	
KCTZY2R250A001R00	5.5	25	25VDC	N750±500ppm/°C	1MHz	
KCTZY2K450A001R00	8.0	45	25VDC	N1000±500ppm/°C	1MHz	
KCTZV2Z2R5A110R00	0.65	2.5	25VDC	NP0±300ppm/°C	200MHz	
KCTZV2Z030A110R00	1.5	3.0	25VDC	NP0±300ppm/°C	1MHz	
KCTZV2Z060A110R00	2.5	6.0	25VDC	NP0±300ppm/°C	1MHz	
KCTZV2Z100A110R00	3.0	10	25VDC	NP0±300ppm/°C	1MHz	
KCTZV2R200A110R00	4.5	20	25VDC	N750±500ppm/°C	1MHz	
KCTZS2Z060A001R00	3.0	6.0	25VDC	NP0±300ppm/°C	1MHz	
KCTZS2Z100A001R00	3.5	10	25VDC	NP0±300ppm/°C	1MHz	
KCTZS2R200A001R00	7.0	20	25VDC	N750±500ppm/°C	1MHz	