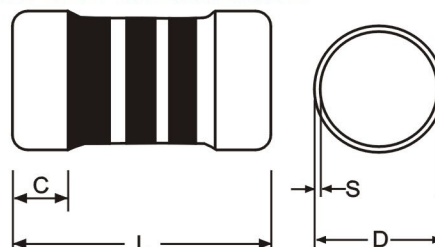


MELF-MFR TYPE



Coating color: **Blue.**

Dimensions:

Type	Size	Dimensions(mm)			
		L	D	C	S
MELF-MFR	0102	2±0.1	1.3±0.1	0.55±0.1	0.1±0.05
	0204	3.5±0.2	1.45±0.1	0.7±0.1	0.15±0.1
	0207	5.7±0.2	2.2±0.1	0.8±0.2	0.2±0.1
	0309	8.5±0.3	3±0.3	1.7±0.2	0.3±0.1
	0411	10.5±0.3	4±0.3	2.3±0.2	0.3±0.1
	0515	14.5±0.3	4.5±0.3	2.3±0.2	0.3±0.1

Range:

Type	Size	POWER RATING	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	T.C.R.	RESISTANCE RANGE				
						±0.1%	±0.25%	±0.5%	±1%	±5%
MELF-MFR	0102	1/8Ws	150V	300V	±15ppm ±25ppm ±50ppm ±100ppm	50 _Ω - 56K	50 _Ω - 100K	1 _Ω - 1M	0 _Ω 22 - 2M	
	0204	1/8W	150V	300V		100 _Ω - 56K	100 _Ω - 100K	1 _Ω - 1M	0 _Ω 22 - 2M	
		1/4Ws	200V	400V		100 _Ω - 56K	100 _Ω - 100K	1 _Ω - 1M	0 _Ω 5 - 2M	
	0207	1/4W	200V	400V		100 _Ω - 100K	10 _Ω - 560K	1 _Ω - 5M	0 _Ω 22 - 5M	
		1/2Ws	300V	600V		100 _Ω - 100K	10 _Ω - 560K	1 _Ω - 5M	0 _Ω 22 - 5M	
		1Wss	400V	700V		100 _Ω - 100K	10 _Ω - 560K	1 _Ω - 5M	0 _Ω 5 - 5M	
	0309	1Ws	500V	1000V	±50ppm ±100ppm	-----	10 _Ω - 100K	1 _Ω - 1M	0.1 _Ω - 1M	
	0411	2Ws				-----	10 _Ω - 100K	1 _Ω - 1M	0.1 _Ω - 1M	
	0515	3Ws				-----	10 _Ω - 100K	1 _Ω - 1M	0.1 _Ω - 1M	
						-----	10 _Ω - 100K	1 _Ω - 1M	0.1 _Ω - 1M	

Rated-Voltage = $\sqrt{P(W) \times R(\Omega)}$ or Max.working voltage, whichever lower.

Characteristics

Item	Characteristics	Test Method
1. Operating Temp. Range	-55°C~155°C	
2. Temperature Coefficient	±100ppm/°C ; ±50ppm/°C ±25ppm/°C ; ±15ppm/°C	JIS-C-5202; 5.2
3. Short time overload	±(0.5%+0.05Ω)	Rating voltage×2.5 or Max. overload voltage for 5 sec. Whichever less
4. Pulse overload	±(0.5%+0.05Ω)	Rating voltage ×3 or Max. pulse overload voltage for 10,000 cycle (1 sec. "on" 25 sec. "off"), Whichever less
5. Temperature cycling	±(0.5%+0.05Ω)	-55°C(30min.)/+85°C(30min.) for 5 cycle
6. Load Life in Humidity	±(1%+0.05Ω)	40°C ±2°C, 90% ~95% RH, 1000h, 1.5h "on"/0.5h "off" cycle
7. Load Life	±(1%+0.05Ω)	70°C ±2°C, 1000h, 1.5h "on"/0.5h "off" cycle
8. Resistance to soldering heat	±(0.5%+0.05Ω)	260°C ±5°C, 5 sec±1 sec
9. Solderability	90% Coverage/Min	235°C ±5°C, 2 sec±0.5 sec
10. Bending test	±(0.5%+0.05Ω)	Holding point width 90mm, Bending 5mm, 1 time
11. Non-Combustibility	The resistors shall withstand Overload test in accordance With Article UL-94, V-0 without producing a fire hazard.	

Classification (Part No)

MELF-MFR	0207	1/2WS	121Ω	F	T	50
STYLE	SIZE	POWER	RESISTANCE	TOLERANCE	PACKING	PPM
				F = ±1%	T = Tape/Reel	15
				D = ±0.5%	B = Bulk	25
				C = ±0.25%		50
				B = ±0.1%		100
				J = ±5%		

Packaging

Size	TAPE/REEL	BULK	CARTON
0102	3000pcs	-----	-----
0204	3000pcs	-----	-----
0207	2000pcs	-----	-----
0309	2500pcs	2000pcs	20000pcs
0411	1500pcs	1000pcs	10000pcs
0515	1500pcs	500pcs	5000pcs