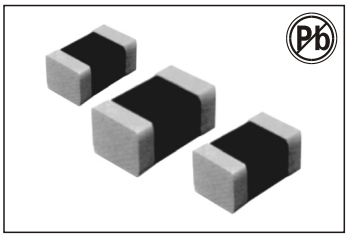

# SURFACE–MOUNT MULTI–LAYER CHIP BEADS

## FEATURES:

- Multilayer structure
- Closed magnetic circuit
- Avoids crosstalk
- Excellent magnetic shield
- Excellent solderability
- High reliability
- EMI/RFI suppression
- 20%impedance tolerance

## COMMON APPLICATIONS:

- Cellular Phones
- Mobil Radios
- Cordless Telephones
- Modems
- Global Positioning Systems
- Wireless Communications Equipment
- Network Systems
- Computer Products

## ELECTRICAL CHARACTERISTICS:

| IMPEDANCE Ω AT 100 MHz | DCR (Ω) Max | IDC Max mA |
|---|---|---|
| 7 | 0.20 | 600 |
| 11 | 0.20 | 600 |
| 19 | 0.20 | 600 |
| 26 | 0.20 | 400 |
| 31 | 0.20 | 400 |
| 36 | 0.20 | 400 |
| 60 | 0.25 | 400 |
| 70 | 0.25 | 400 |
| 80 | 0.25 | 400 |
| 100 | 0.25 | 400 |
| 120 | 0.25 | 300 |
| 150 | 0.25 | 300 |
| 180 | 0.25 | 300 |
| 220 | 0.25 | 300 |
| 300 | 0.25 | 300 |
| 500 | 0.35 | 200 |
| 600 | 0.40 | 200 |
| 800 | 0.40 | 150 |
| 1000 | 0.45 | 100 |
| 1200 | 0.06 | 100 |
| 1500 | 0.80 | 100 |
| 2000 | 0.90 | 50 |
| 2200 | 1.00 | 50 |
| 2500 | 1.20 | 50 |
| 3000 | 1.40 | 50 |
| 19 | 0.20 | 500 |
| 26 | 0.20 | 500 |
| 31 | 0.30 | 500 |
| 60 | 0.30 | 400 |

| IMPEDANCE (Ω) AT 100 MHz | DCR (Ω) Max | IDC Max mA |
|---|---|---|
| 70 | 0.30 | 400 |
| 80 | 0.30 | 300 |
| 100 | 0.30 | 300 |
| 120 | 0.30 | 300 |
| 150 | 0.30 | 300 |
| 180 | 0.35 | 300 |
| 220 | 0.30 | 300 |
| 300 | 0.30 | 300 |
| 500 | 0.30 | 200 |
| 600 | 0.30 | 200 |
| 800 | 0.30 | 200 |
| 1000 | 0.30 | 200 |
| 1200 | 0.50 | 100 |
| 1500 | 0.60 | 100 |
| 2000 | 0.60 | 100 |
| 2500 | 0.80 | 100 |
| 3000 | 1.00 | 80 |
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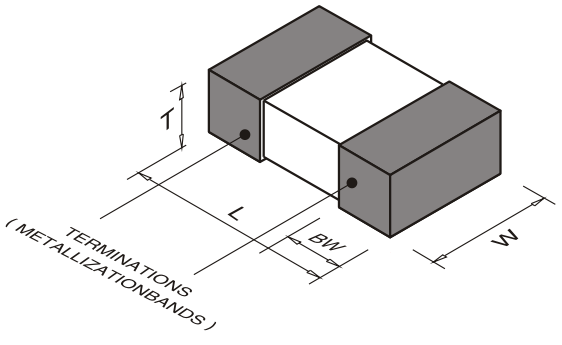
Note:1. K=±10%,M=±20%

## TECHNICAL INFORMATION

- Testing:Impedance vs.Frequency:HP 4195A
- Solderability:90% of the terminal electrode shall be covered
  Preheat:@ 260℃±5℃ for 60 seconds
  Flux:Rosin,Dip for 10 seconds ±1 second
- Thermal Shock:Impedance shall be within ±20% of initial value when temperature is –25℃ and +85℃ for 30 minutes for each 50 cycles
- Operating Temperature:–25℃ to +85℃
- Storage Temperature:–25℃ to +85℃

Note:All specifications subject to change without notice.

## PHYSICAL CHARACTERISTICS

(Refer to Size Chart Page 4)