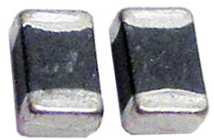


# SMD Multilayer Chip Bead

ACML-0201



RoHS  
Compliant



0.6 x 0.3 x 0.3 mm

## FEATURES:

- Internal silver printed layers and magnetically shielded to minimize crosstalk
- Substantial EMI suppression over a wide frequency range
- Excellent solderability and heat resistance

## APPLICATIONS:

- Noise suppression for computers and peripheral devices, DVD cameras, LCD TVs, communication equipments, OA equipments, etc.
- Reduces noise in ultra high speed circuits as well

## STANDARD SPECIFICATIONS:

**Operating Temperature:** -55°C ~ +125°C

**Storage Temperature:** -10°C to +40°C, 70% RH max

| Part No.      | Z(Ω) ± 25% | Z Test Freq. | DCR (Ω) | Ir (mA) |
|---------------|------------|--------------|---------|---------|
|               |            | (MHz)        | (max)   | (max)   |
| ACML-0201-600 | 60         | 100          | 0.40    | 200     |
| ACML-0201-800 | 80         | 100          | 0.60    | 200     |
| ACML-0201-121 | 120        | 100          | 0.80    | 200     |
| ACML-0201-241 | 240        | 100          | 1.00    | 200     |
| ACML-0201-471 | 470        | 100          | 1.40    | 200     |
| ACML-0201-601 | 600        | 100          | 1.70    | 200     |

### Test Conditions and equipments

**Z:** High Accuracy RF Impedance/Material Analyzer -E4991A, 100MHz, -20dBm or 50mV

**DCR:** High Accuracy Milliohm meter –HP4338B

**Ir:** Electric Power Supply, Electric Current Meter, Thermometer.  $\Delta T \leq 20^\circ C$

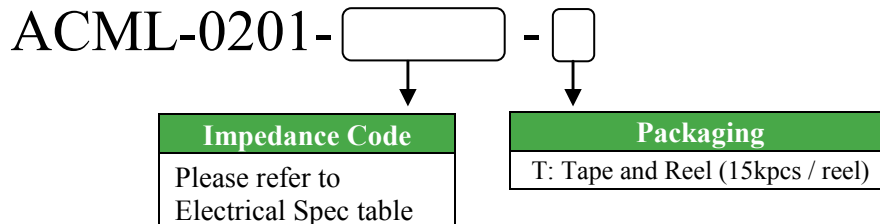
**Unless otherwise specified, the standard atmospheric conditions for measurement/test as:**

- Ambient Temperature: 20±15°C
- Relative Humidity: 65%±20%
- Air Pressure: 86 KPa to 106 KPa

### Visual Examination

- Inspection Equipment: 20X magnifier

## OPTIONS AND PART IDENTIFICATION:

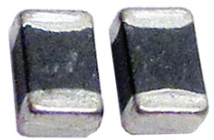


# SMD Multilayer Chip Bead

ACML-0201



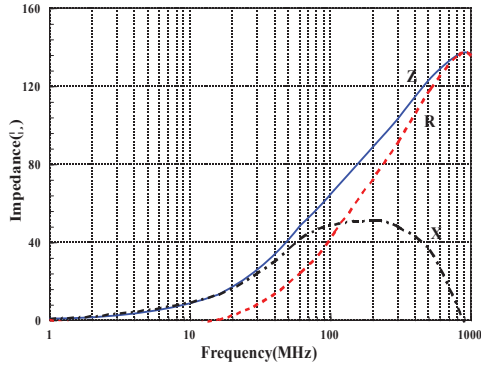
RoHS  
Compliant



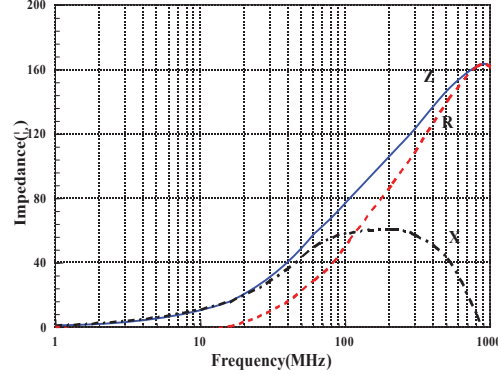
0.6 x 0.3 x 0.3 mm

## FREQUENCY RESPONSE

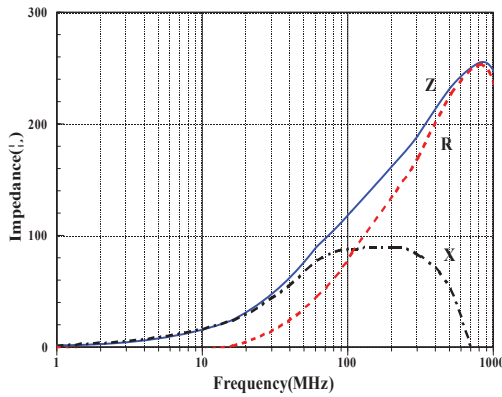
ACML-0201-600



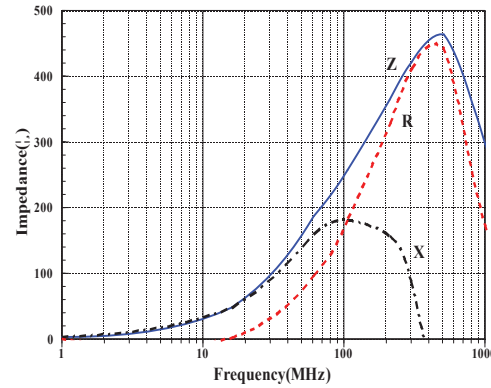
ACML-0201-800



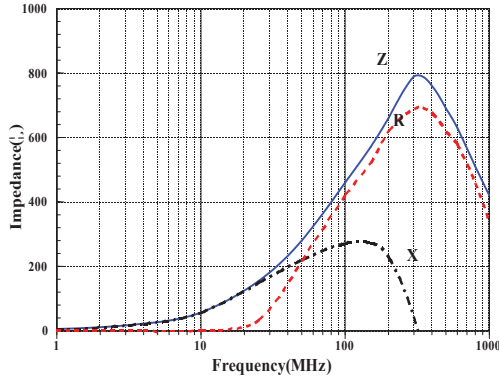
ACML-0201-121



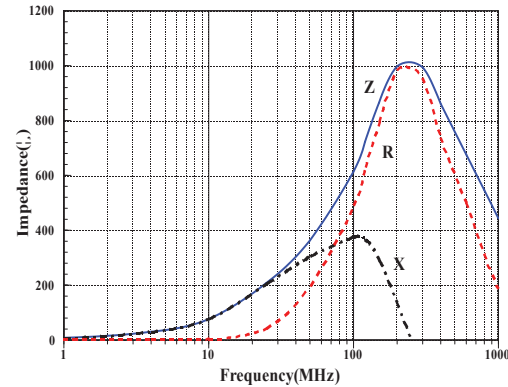
ACML-0201-241



ACML-0201-471



ACML-0201-601



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# SMD Multilayer Chip Bead

ACML-0201



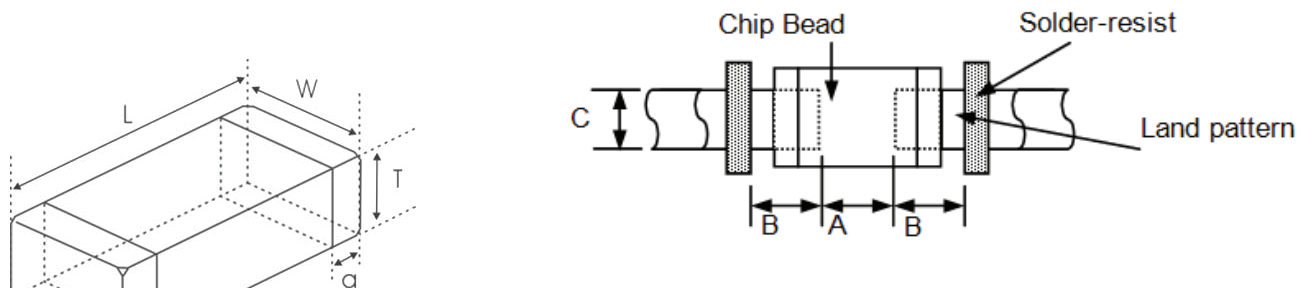
RoHS  
Compliant



0.6 x 0.3 x 0.3 mm

## OUTLINE DRAWING:

### Recommended Land Pattern

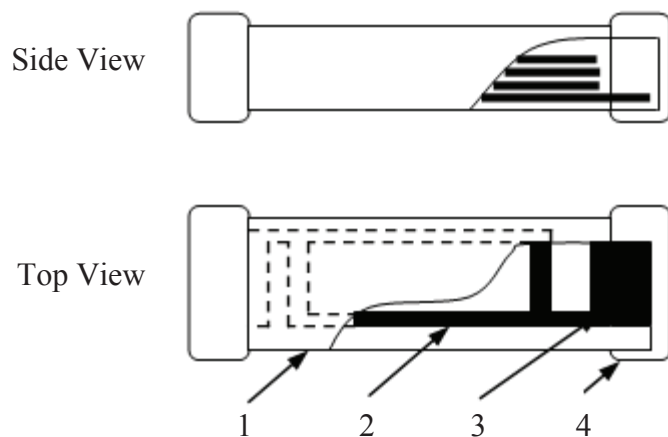


| A       | B       | C        |
|---------|---------|----------|
| 0.2~0.3 | 0.2~0.3 | 0.3~0.35 |

| Series    | L                         | W                         | T                         | a                          |
|-----------|---------------------------|---------------------------|---------------------------|----------------------------|
| ACML-0201 | 0.6±0.05<br>[0.024±0.002] | 0.3±0.05<br>[0.012±0.002] | 0.3±0.05<br>[0.012±0.002] | 0.15±0.05<br>[0.006±0.002] |

Dimension: mm [inch]

## Materials



|   | Part Name          | Material                                |
|---|--------------------|---|
| 1 | Base Material      | Ferrite                                 |
| 2 | Internal Conductor | Ag                                      |
| 3 | Pull out Electrode | Ag                                      |
| 4 | Terminal Electrode | Ag (Inner layer)<br>Ni-Sn (Outer layer) |

# SMD Multilayer Chip Bead

ACML-0201

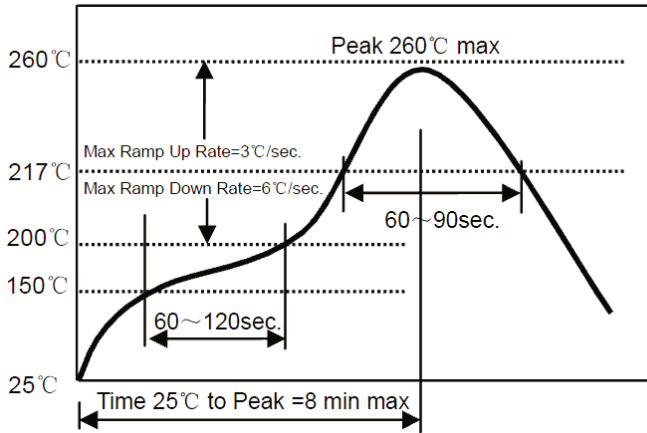


RoHS  
Compliant



0.6 x 0.3 x 0.3 mm

## REFLOW PROFILE:

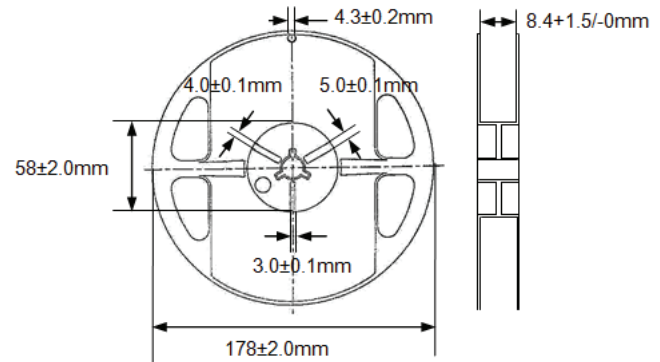
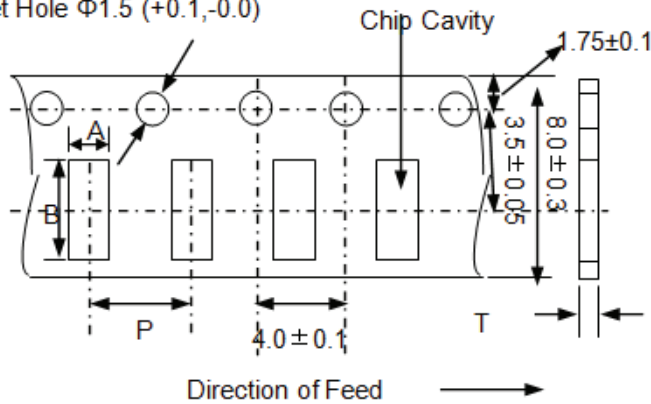


|                             |                               |
|-----------------------------|-------------------------------|
| Preheat Condition           | 150 to 200 °C; 60 to 120 sec. |
| Albwd time above 217 °C     | 60 to 90 sec.                 |
| Max temperature             | 260 °C                        |
| Max time at max temperature | 10 sec.                       |
| Solder paste                | Sn/3.0Ag/0.5Cu                |
| Allowed Reflow time         | 2x max.                       |

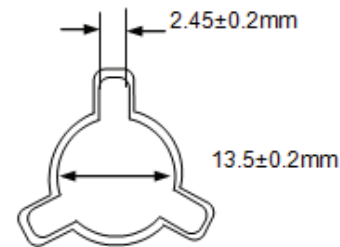
## TAPE & REEL:

T: 15,000pcs / reel

Sprocket Hole  $\Phi 1.5 (+0.1, -0.0)$



| A        | B        | P       | t(max) |
|----------|----------|---------|--------|
| 0.40±0.1 | 0.70±0.1 | 2.0±0.1 | 0.55   |



Dimension: mm

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