

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 Milliohmmeter –HP4338B

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

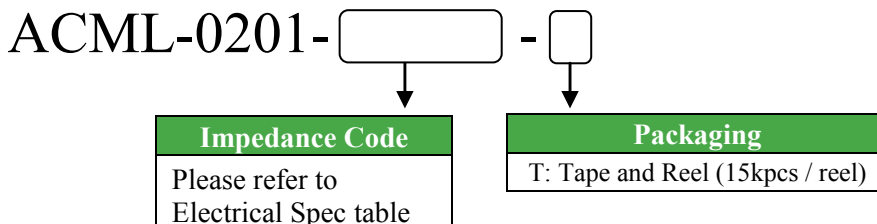
Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

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

Visual Examination

- a. Inspection Equipment: 20X magnifier

OPTIONS AND PART IDENTIFICATION:



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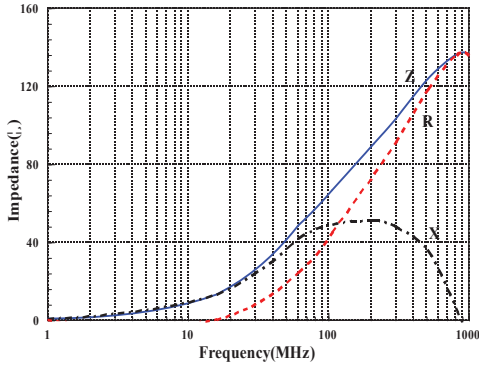
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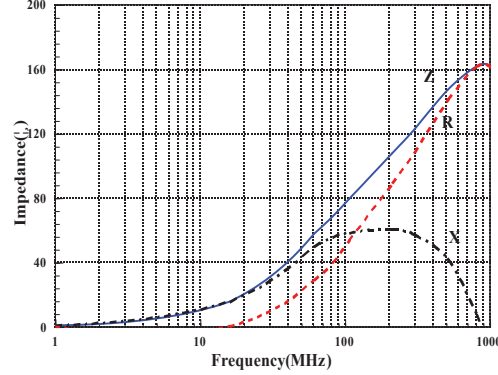
0.6 x 0.3 x 0.3 mm

FREQUENCY RESPONSE

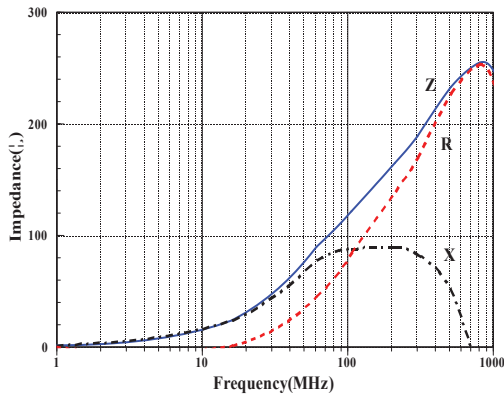
ACML-0201-600



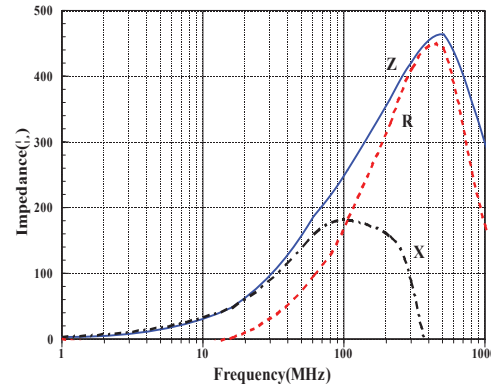
ACML-0201-800



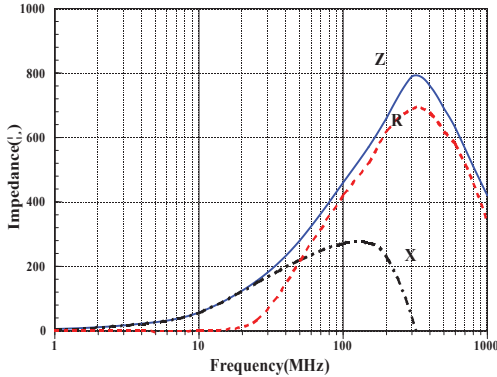
ACML-0201-121



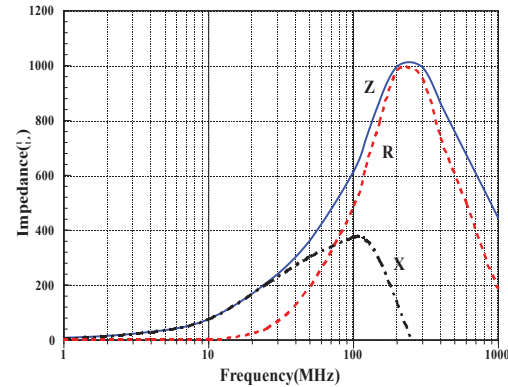
ACML-0201-241



ACML-0201-471



ACML-0201-601



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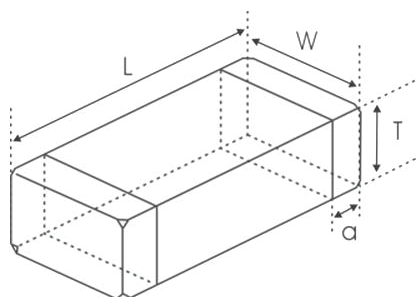


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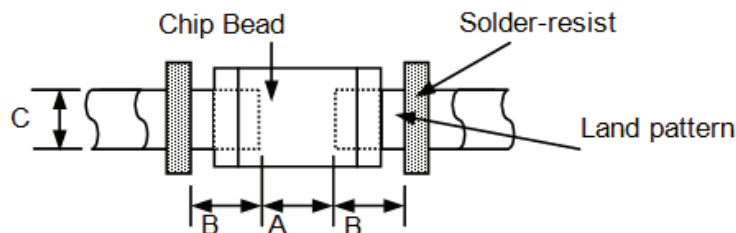


0.6 x 0.3 x 0.3 mm

OUTLINE DRAWING:



Recommended Land Pattern



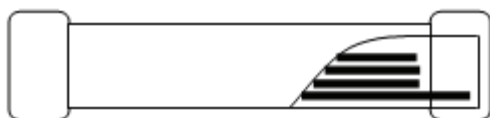
| A | B | C |
|---------|---------|----------|
| 0.2~0.3 | 0.2~0.3 | 0.3~0.35 |

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

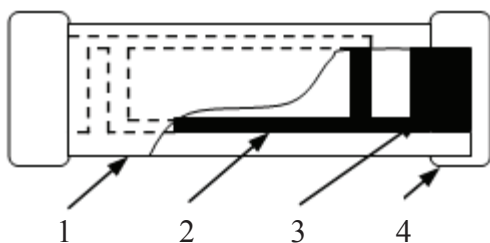
Dimension: mm [inch]

Materials

Side View



Top View



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

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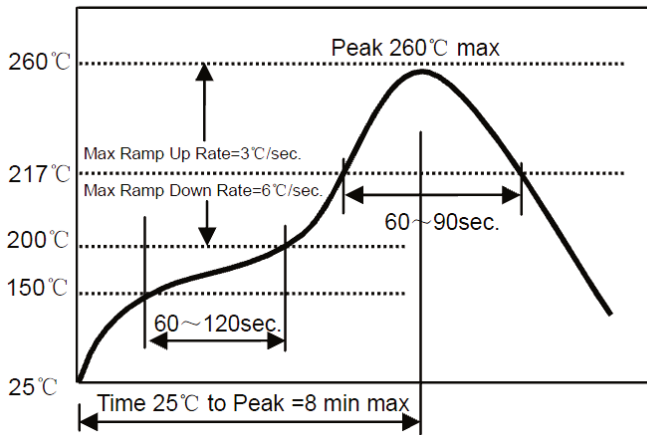


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REFLOW PROFILE:

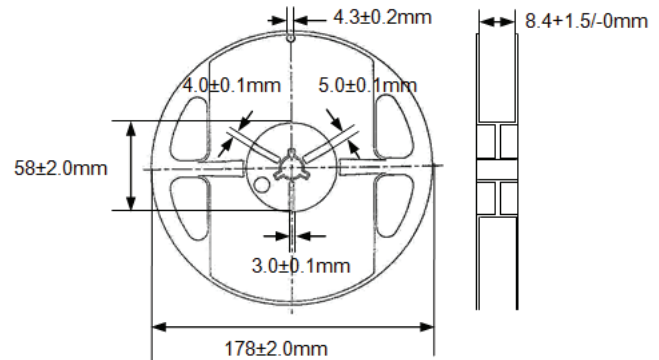
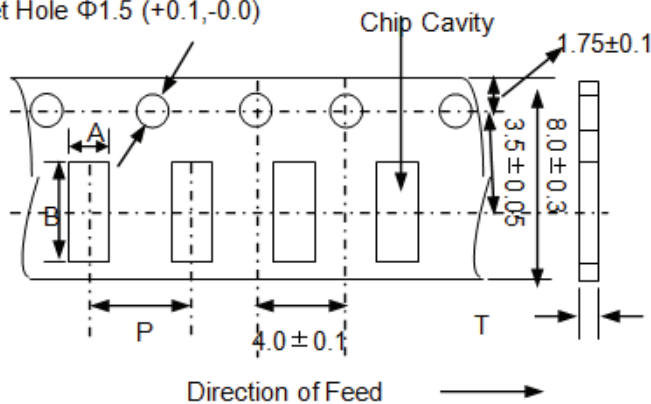


| | |
|-----------------------------|-------------------------------|
| Preheat Condition | 150 to 200 °C; 60 to 120 sec. |
| Albwd time above 217 °C | 60 to 90 sec. |
| Max temperature | 260 °C |
| Max time at max temperature | 10 sec. |
| Solder paste | Sn/3.0Ag/0.5Cu |
| Allowed Reflow time | 2x max.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

TAPE & REEL:

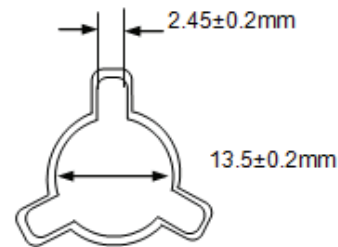
T: 15,000pcs / reel

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



Direction of Feed →

| 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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