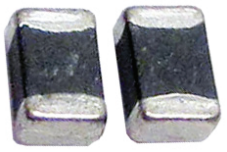
# 0805 Multilayer Ferrite Chip Bead

## ACML-0805



2.00 x 1.25 x 0.85m m

RoHS/RoHS II compliant

### FEATURES:

- Multilayer monolithic construction yields high reliability
- Nickel barrier terminations provide excellent solder heat resistance
- Suitable for flow and RoHS reflow soldering

### APPLICATIONS:

- Video equipment, audio equipment
- Automotive electrical equipment
- Communication equipment
- OA equipment and other

## ELECTRICAL SPECIFICATIONS:

| PARAMETERS |
|---|
| Operating temperature: -55°C to + 125°C |
| Storage temperature : -55°C to + 125°C |

| Part Number | Impedance | Frequency | DC resistance | Rated Current |
|---|---|---|---|---|
| Units | Ω ± 25% | MHz | Ω max | mA max |
| Symbol | Z | F | $R_{DC}$ | $I_R$ |
| ACML-0805-070 | 7 | 100 | 0.05 | 2200 |
| ACML-0805-110 | 11 | 100 | 0.05 | 2000 |
| ACML-0805-170 | 17 | 100 | 0.05 | 2000 |
| ACML-0805-190 | 19 | 100 | 0.05 | 2000 |
| ACML-0805-260 | 26 | 100 | 0.05 | 1500 |
| ACML-0805-310 | 31 | 100 | 0.05 | 1500 |
| ACML-0805-360 | 36 | 100 | 0.05 | 1500 |
| ACML-0805-500 | 50 | 100 | 0.05 | 1000 |
| ACML-0805-600 | 60 | 100 | 0.05 | 1000 |
| ACML-0805-700 | 70 | 100 | 0.08 | 1000 |
| ACML-0805-800 | 80 | 100 | 0.10 | 1000 |
| ACML-0805-101 | 100 | 100 | 0.12 | 1000 |
| ACML-0805-121 | 120 | 100 | 0.15 | 800 |
| ACML-0805-151 | 150 | 100 | 0.15 | 800 |
| ACML-0805-181 | 180 | 100 | 0.20 | 600 |
| ACML-0805-221 | 220 | 100 | 0.20 | 600 |
| ACML-0805-301 | 300 | 100 | 0.25 | 500 |
| ACML-0805-501 | 500 | 100 | 0.30 | 500 |
| ACML-0805-601 | 600 | 100 | 0.35 | 500 |
| ACML-0805-751 | 750 | 100 | 0.35 | 300 |
| ACML-0805-102 | 1000 | 100 | 0.45 | 300 |
| ACML-0805-122 | 1200 | 50 | 0.50 | 200 |
| ACML-0805-152 | 1500 | 50 | 0.65 | 200 |
| ACML-0805-202 | 2000 | 50 | 0.80 | 200 |

### Test Conditions and Equipments

**$I_R$: Rated current applied when the chip surface temperature rise just 20°C against chip surface temperature.**
**Electric power supplier, Electric current meter, Thermometer.**
**Z: Impedance Analyzer HP4291 or equivalent, 50mV.**
**DCR: LCR Meter HP4263A or equivalent**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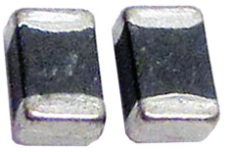


2.00 x 1.25 x 0.85m m

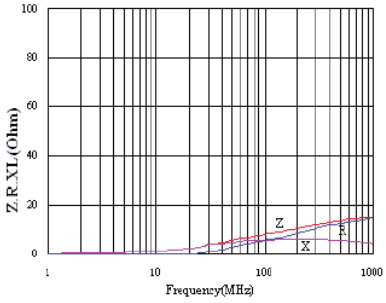
## OPTIONS AND PART IDENTIFICATION

ACML-0805 - ☐ - ☐

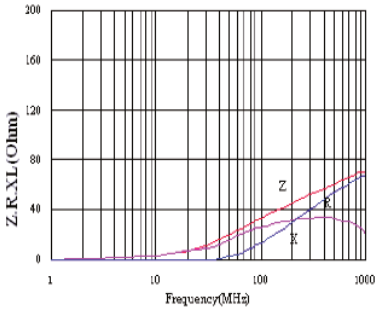
| Impedance Code | Packaging |
|---|---|
| Please refer to the P/N table | T: Tape and Reel (4kpcs / reel) |

## FREQUENCY CHARACTERISTICS

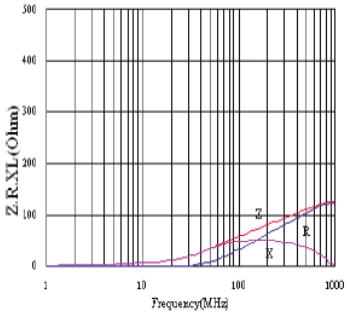
ACML-0805-070



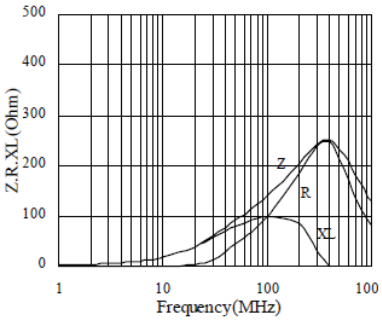

ACML-0805-310




ACML-0805-600




ACML-0805-151

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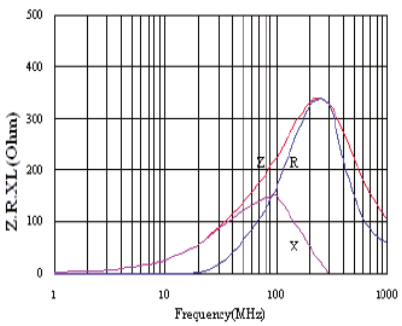


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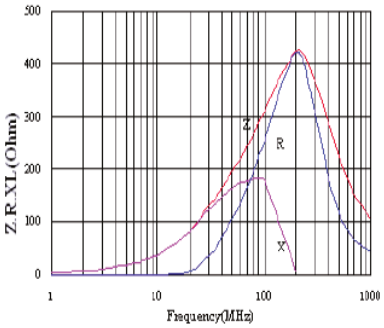
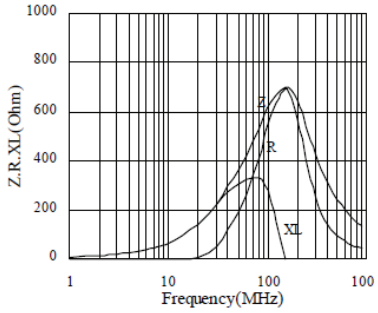
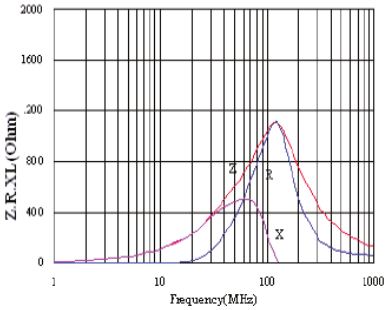


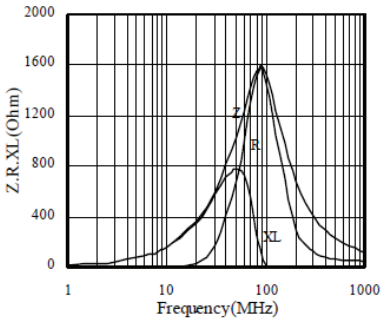

ACML-0805-601




ACML-0805-102




ACML-0805-152







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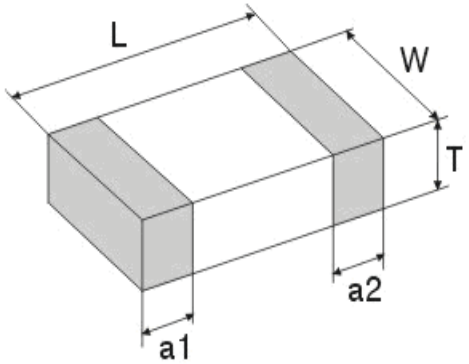
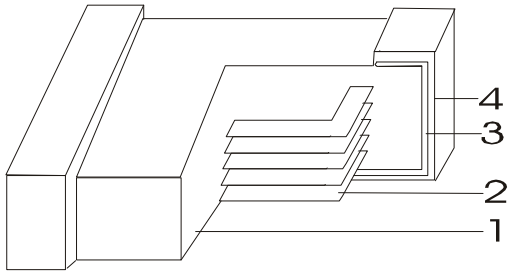
## MECHANICAL DIMENSIONS




| L | W | T | a1, a2 |
|---|---|---|---|
| 2.00±0.20 | 1.25±0.20 | 0.85±0.20 | 0.50±0.30 |

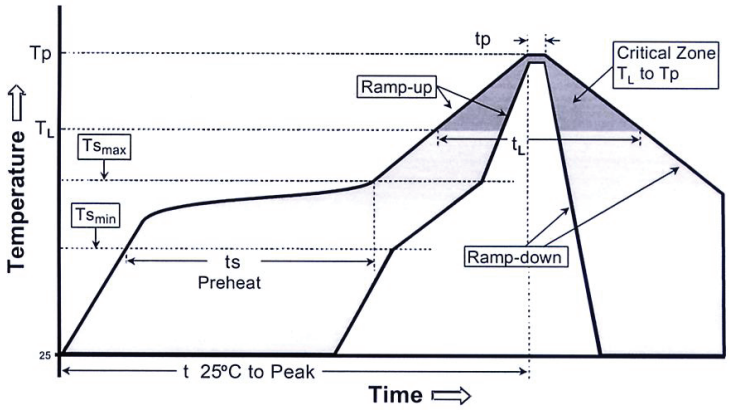
### Materials




| | Part Name | Material |
|---|---|---|
| 1 | Base Material | Ferrite |
| 2 | Internal Conductor | Ag |
| 3 | Terminal Electrode | Ag |
| 4 | Terminal Electrode | Ni-Sn |

**Dimension: mm**

## REFLOW PROFILE




| Profile Feature | Lead-Free Assembly |
|---|---|
| Average Ramp-Up Rate ( Tsmax to Tp ) | 3°C/second max. |
| Preheat<br>– Temperature Min (Tsmin)<br>– Temperature Max (Tsmax)<br>– Time ( tsmin to tsmax) | 150 °C<br>200 °C<br>60-180 seconds |
| Time maintained above:<br>– Temperature (TL)<br>– Time (tL) | 217 °C<br>60-150 seconds |
| Peak/Classification Temperature (Tp)<br>Peak/Classification Time (Tp) | 260 °C<br>3-4 seconds |
| Time within 5 °C of actual Peak Temperature (tp) | 20-40 seconds |
| Ramp-Down Rate | 6°C/second max. |
| Time 25 °C to Peak Temperature | 8 minutes max. |

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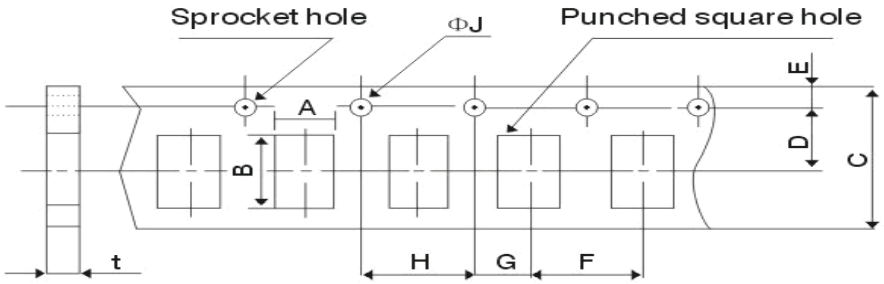
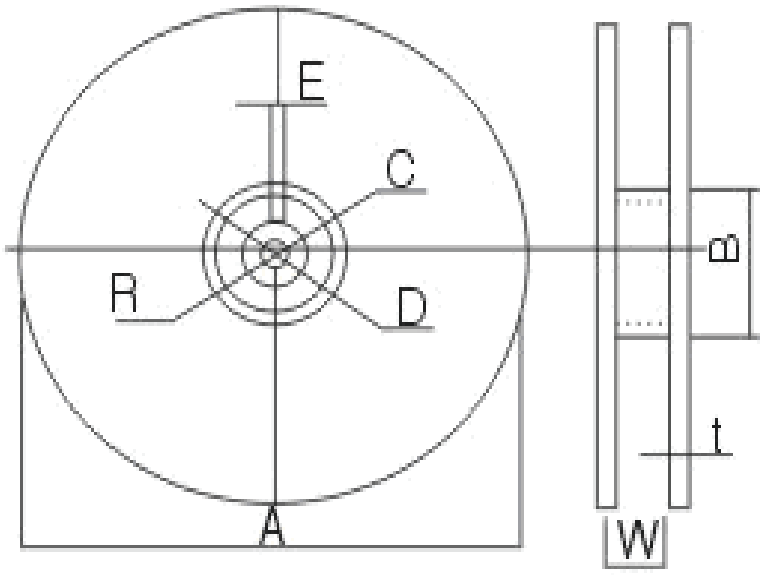
## TAPE & REEL:

**T= tape and reel (4,000 pcs per reel)**




| | |
|---|---|
| A | 1.5±0.15 |
| B | 2.5±0.2 |
| C | 8.0±0.3 |
| D | 3.5±0.05 |
| E | 1.75±0.1 |
| F | 4.0±0.1 |
| G | 2.0±0.05 |
| H | 4.0±0.1 |
| ΦJ | 1.5+0.1/-0 |
| t(max) | 1.1±0.05 |




| | |
|---|---|
| A | 178±2 |
| B | 60±2 |
| C | 13.0±0.5 |
| D | 21.0±0.8 |
| E | 2.0±0.5 |
| W | 10.0±1.15 |
| t | 1.2±0.2 |
| R | 1.0±0.25 |

**Dimension: mm**

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