

# 0805 Multilayer Ferrite Chip Bead

ACML-0805



RoHS/RoHS II compliant



2.00 x 1.25 x 0.85mm

## 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         | $\Omega \pm 25\%$ | MHz       | $\Omega$ max    | mA max         |
| Symbol        | Z                 | F         | R <sub>DC</sub> | I <sub>R</sub> |
| 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<sub>R</sub>:** 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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## OPTIONS AND PART IDENTIFICATION

ACML-0805 -  -

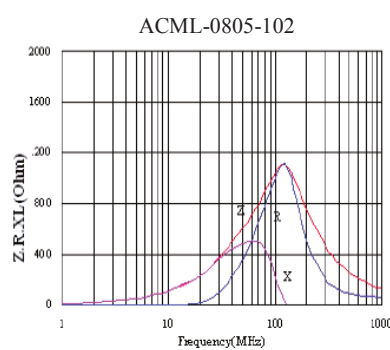
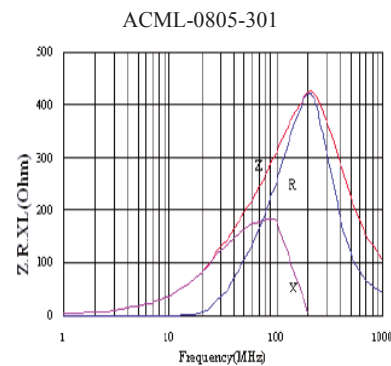
### Impedance Code

Please refer to the P/N table

### Packaging

T: Tape and Reel  
(4kpcs / reel)

## FREQUENCY CHARACTERISTICS



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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 |

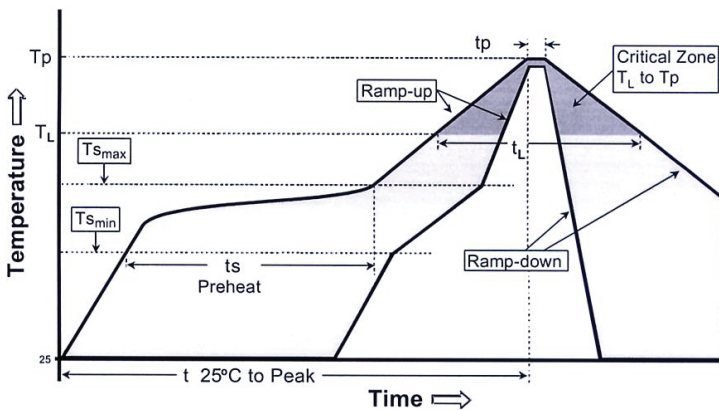
## Materials



|   | 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 (T <sub>smax</sub> to T <sub>p</sub> )                                                                                 | 3°C/second max.                    |
| Preheat<br>– Temperature Min (T <sub>sm</sub> )<br>– Temperature Max (T <sub>smax</sub> )<br>– Time (t <sub>sm</sub> to t <sub>smax</sub> ) | 150 °C<br>200 °C<br>60-180 seconds |
| Time maintained above:<br>– Temperature (T <sub>L</sub> )<br>– Time (t <sub>L</sub> )                                                       | 217 °C<br>60-150 seconds           |
| Peak/Classification Temperature (T <sub>p</sub> )<br>Peak/Classification Time (T <sub>p</sub> )                                             | 260 °C<br>3-4 seconds              |
| Time within 5 °C of actual Peak Temperature (t <sub>p</sub> )                                                                               | 20-40 seconds                      |
| Ramp-Down Rate                                                                                                                              | 6°C/second max.                    |
| Time 25 °C to Peak Temperature                                                                                                              | 8 minutes max.                     |

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