



**THE DATASHEET OF  
ACML-0805-800-T**



# Multilayer Ferrite Chip Bead



ACML-0805 Series

Request Samples



Check Inventory



2.0 x 1.25 x 0.85mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## 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

| Part No.      | Impedance<br>Z( $\Omega$ )<br>$\pm 25\%$ | Test<br>Frequency | DCR<br>( $\Omega$ ) | I <sub>R</sub><br>(mA) |
|---------------|--|-------------------|---------------------|------------------------|
|               |  | (MHz)             | Max                 | Max                    |
| ACML-0805-070 | 7*                                       | 100               | 0.04                | 2000                   |
| ACML-0805-110 | 11*                                      | 100               | 0.04                | 2200                   |
| ACML-0805-170 | 17                                       | 100               | 0.04                | 2000                   |
| ACML-0805-190 | 19                                       | 100               | 0.04                | 2000                   |
| ACML-0805-260 | 26                                       | 100               | 0.05                | 1500                   |
| ACML-0805-310 | 30                                       | 100               | 0.05                | 1500                   |
| ACML-0805-360 | 36                                       | 100               | 0.10                | 1000                   |
| ACML-0805-500 | 50                                       | 100               | 0.10                | 1000                   |
| ACML-0805-600 | 60                                       | 100               | 0.10                | 1000                   |
| ACML-0805-700 | 70                                       | 100               | 0.10                | 1000                   |
| ACML-0805-800 | 80                                       | 100               | 0.10                | 1000                   |
| ACML-0805-101 | 100                                      | 100               | 0.15                | 800                    |
| ACML-0805-121 | 120                                      | 100               | 0.15                | 800                    |
| ACML-0805-151 | 150                                      | 100               | 0.18                | 700                    |
| ACML-0805-181 | 180                                      | 100               | 0.18                | 700                    |
| ACML-0805-221 | 220                                      | 100               | 0.20                | 600                    |
| ACML-0805-301 | 300                                      | 100               | 0.20                | 500                    |
| ACML-0805-421 | 420                                      | 100               | 0.30                | 500                    |
| ACML-0805-501 | 500                                      | 100               | 0.30                | 500                    |
| ACML-0805-601 | 600                                      | 100               | 0.30                | 500                    |
| ACML-0805-751 | 750                                      | 100               | 0.35                | 500                    |
| ACML-0805-102 | 1000                                     | 100               | 0.35                | 500                    |
| ACML-0805-122 | 1200                                     | 50                | 0.50                | 200                    |
| ACML-0805-152 | 1500                                     | 100               | 0.40                | 500                    |
| ACML-0805-202 | 2000                                     | 100               | 0.50                | 500                    |

\*: Impedance tolerance: 0 ~ 15  $\Omega$

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

**Storage Temperature Range:** -10°C ~ + 40°C (with packaging), R.H. 70% Max.

**Test Conditions and equipment:**

**Z:** Impedance Analyzer E4991A or equivalent, -20dBm or 50mV.

**DCR:** High Accuracy Milliohmmeter-HP4338B or equivalent

**I<sub>R</sub>:** Rated current applied when the chip surface temperature rises just 20°C against chip initial surface temperature. Electric power supplier, current meter, Thermometer.



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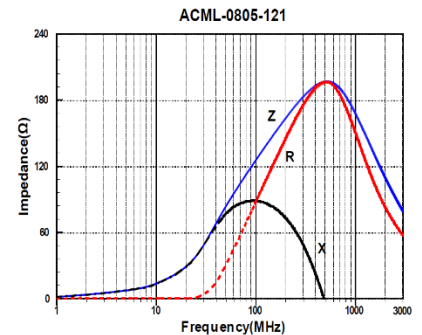
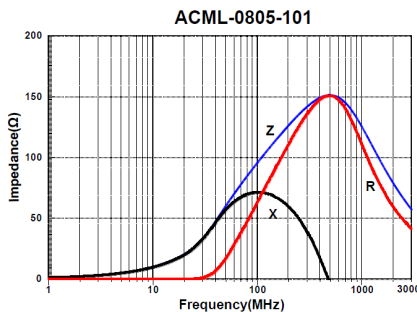
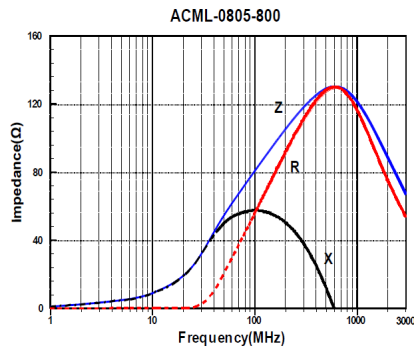
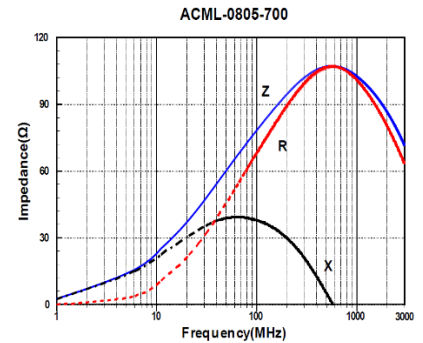
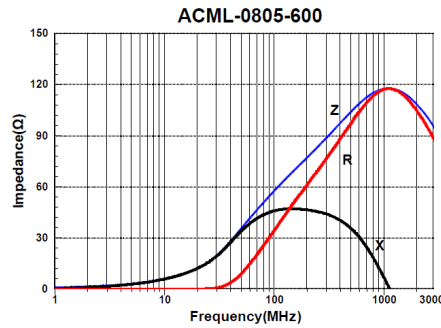
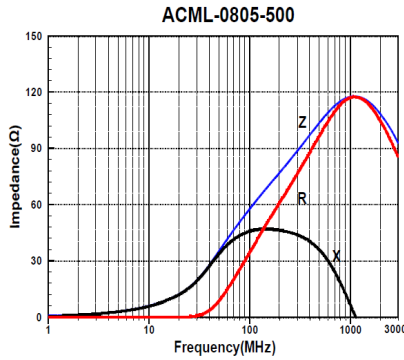
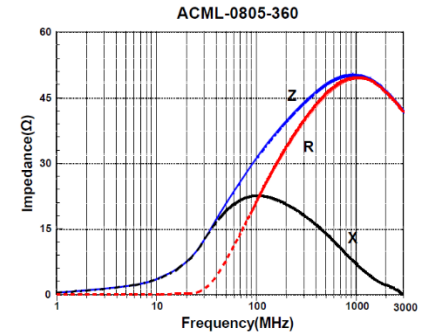
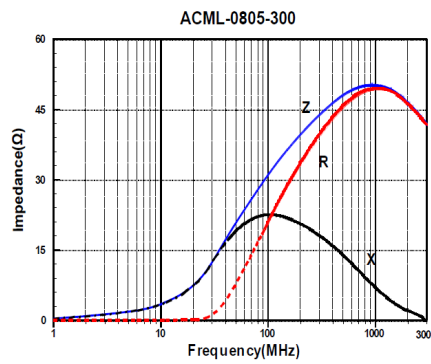
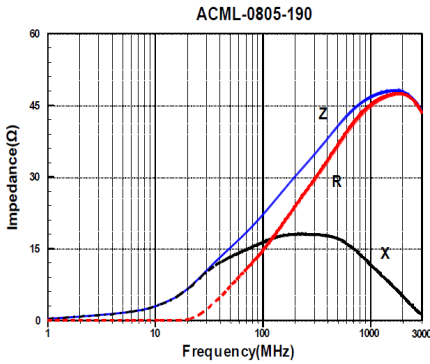
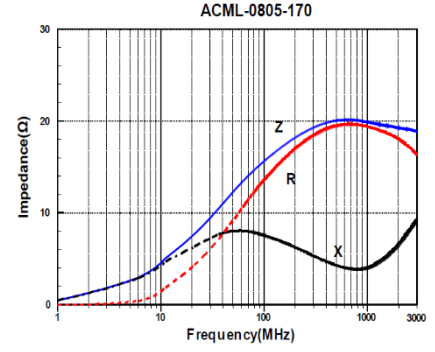
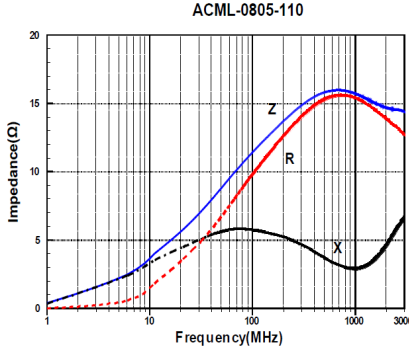
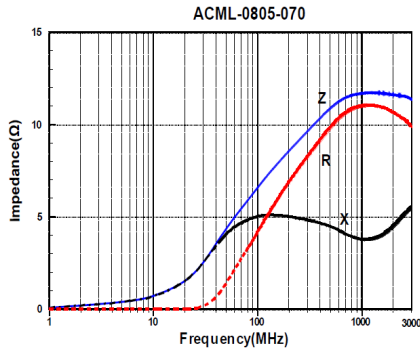


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## Electrical Specifications



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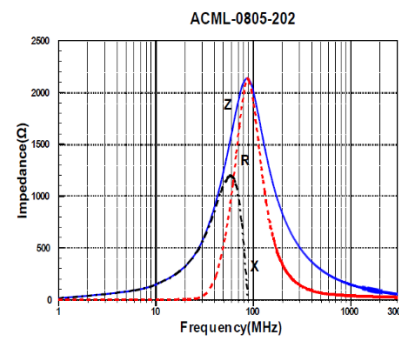
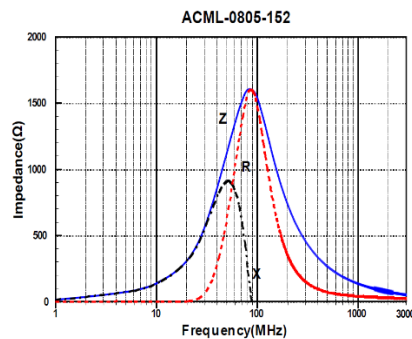
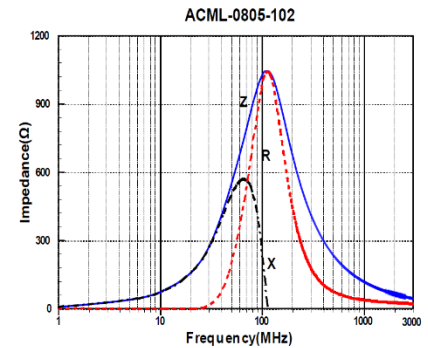
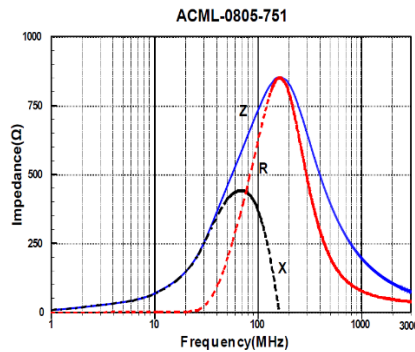
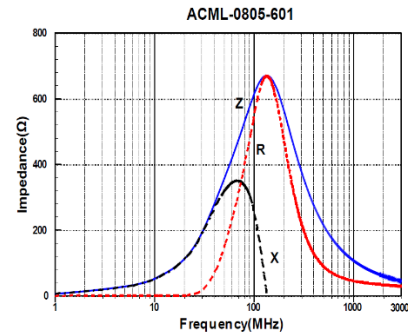
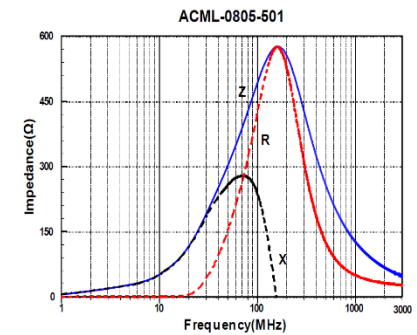
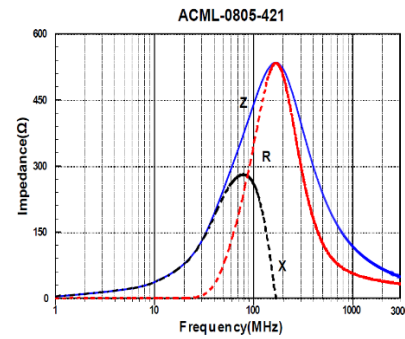
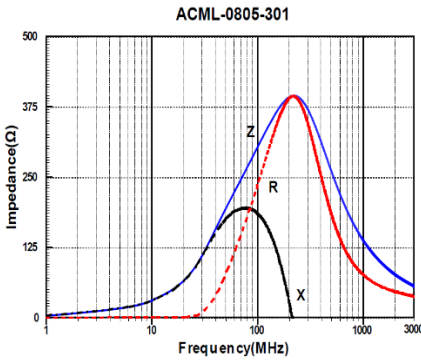
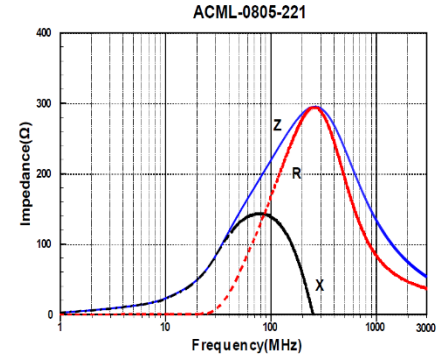
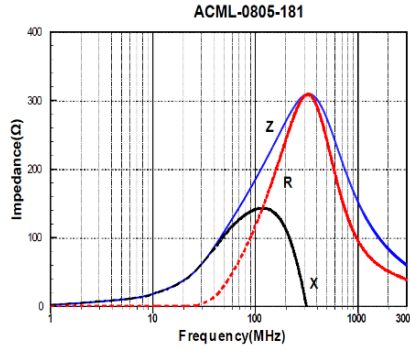
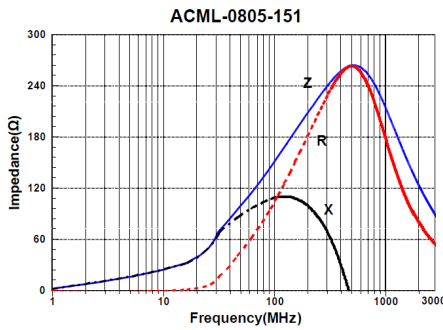


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## Mechanical Specifications



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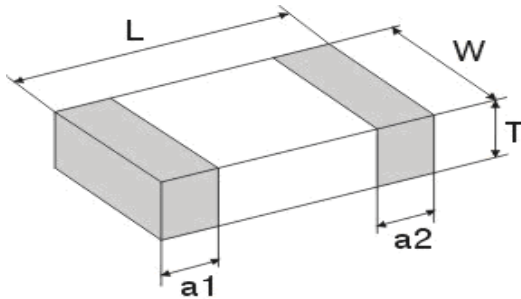


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2.0 x 1.25 x 0.85mm  
**RoHS/RoHS II Compliant**  
 MSL Level = 1

## Mechanical Specifications



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

Dimensions: mm

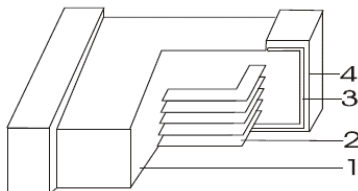
## Part Identification

ACML-0805 -  -

**Impedance Code**  
 Please refer to the table above

**Packaging**  
 T: Tape and Reel  
 4kpcs / reel  
 Blank: Bulk

## Materials



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

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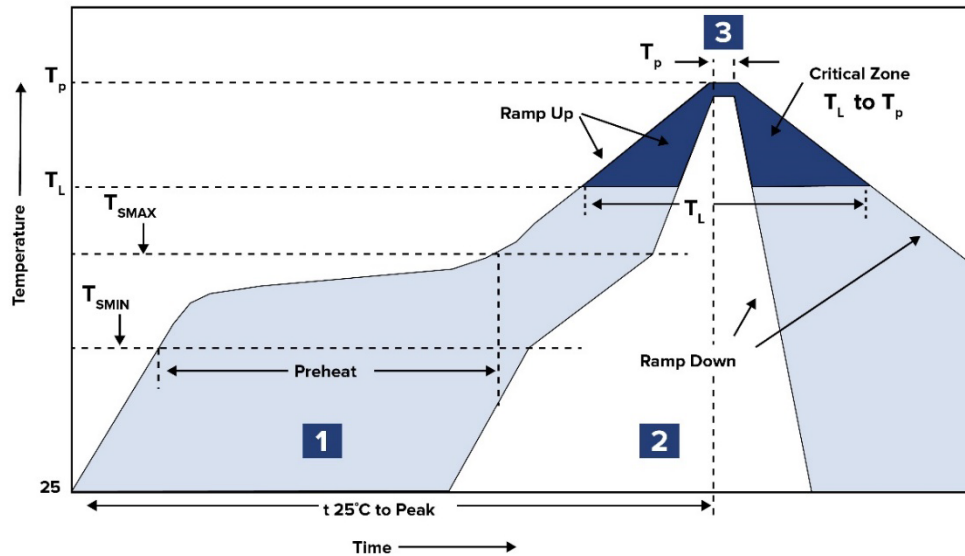


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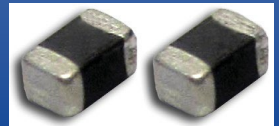
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RoHS/RoHS II Compliant  
MSL Level = 1

## Reflow Profile



| Zone                            | Description | Temperature                               | Times         |
|---------------------------------|-------------|---|---------------|
| 1                               | Preheat     | $T_{SMIN} \sim T_{SMAX}$<br>150°C ~ 200°C | 60 ~ 180 sec. |
| 2                               | Reflow      | $T_L$<br>217°C                            | 60 ~ 150 sec. |
| 3                               | Peak heat   | $T_P$<br>260°C                            | 3~4 sec. MAX  |
| T(25°C) to Peak: 8 minutes max. |             |   |               |

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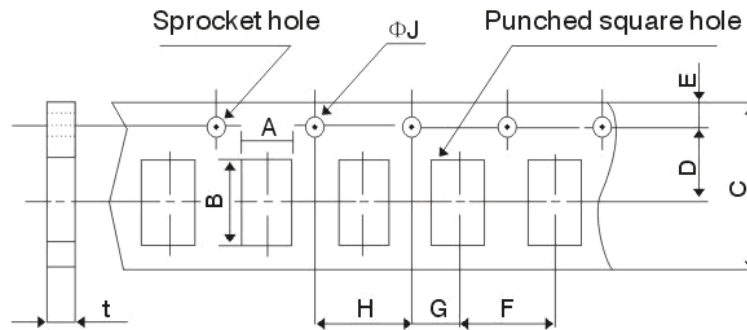
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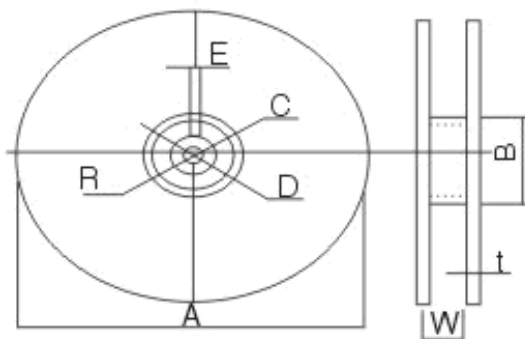
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## Packaging

T: Tape & Reel 4,000pcs/reel



| A        | B       | C       | D        | E        | F       | G        | H       | $\Phi J$   | t (max) |
|----------|---------|---------|----------|----------|---------|----------|---------|------------|---------|
| 1.5±0.15 | 2.3±0.2 | 8.0±0.3 | 3.5±0.05 | 1.75±0.1 | 4.0±0.1 | 2.0±0.05 | 4.0±0.1 | 1.5+0.1/-0 | 1.1     |



|   |          |
|---|----------|
| A | 178±2    |
| B | 58±2     |
| C | 13.5±0.5 |
| D | 21.0±0.8 |
| E | 2.45±0.5 |
| W | 8.4±1.15 |
| t | 1.2±0.2  |
| R | 1.0±0.25 |

Dimensions: mm

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