



**THE DATASHEET OF
ACML-0805-601-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 Z(Ω) $\pm 25\%$ | Test Frequency | DCR (Ω) | I _R (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 Ω

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_R: 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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Multilayer Ferrite Chip Bead



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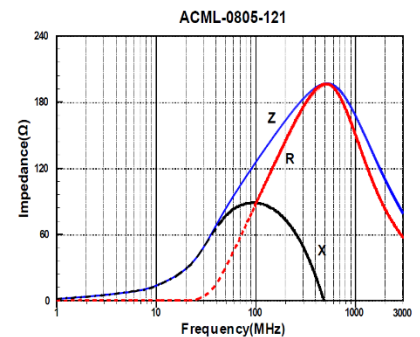
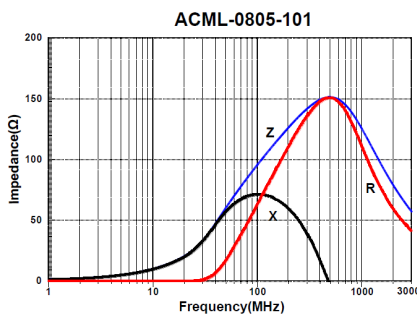
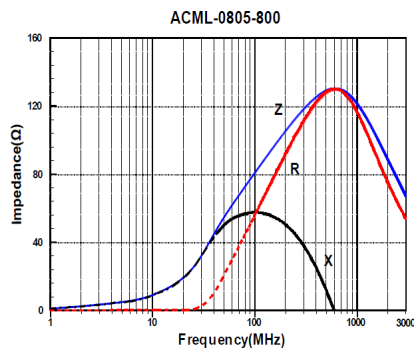
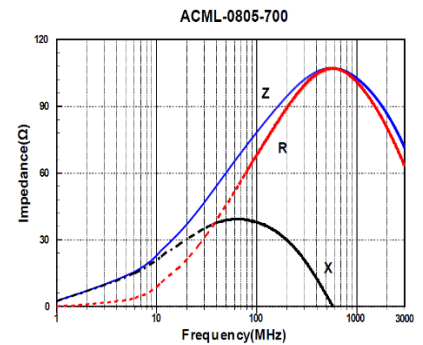
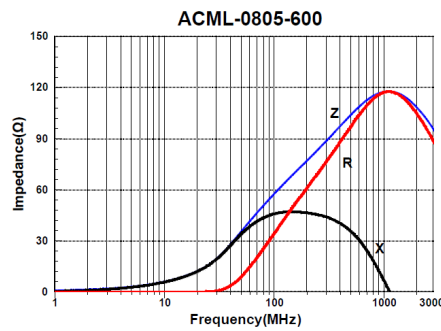
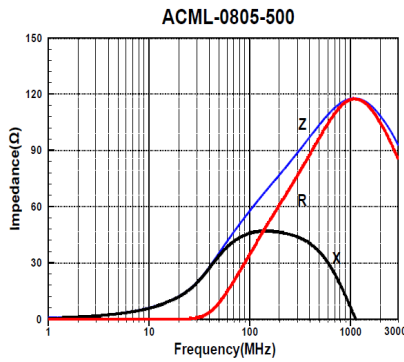
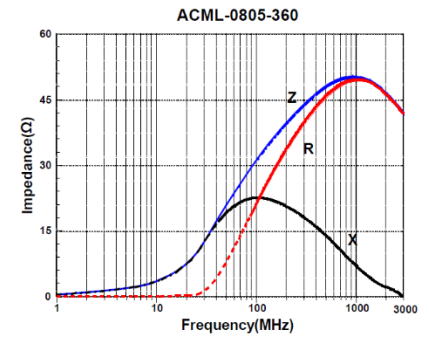
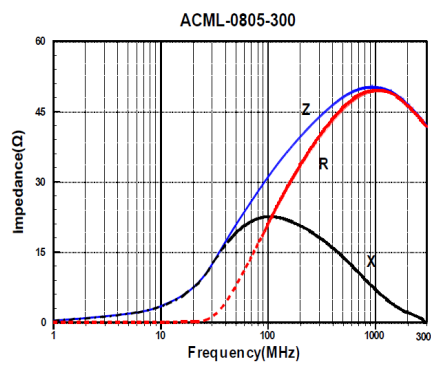
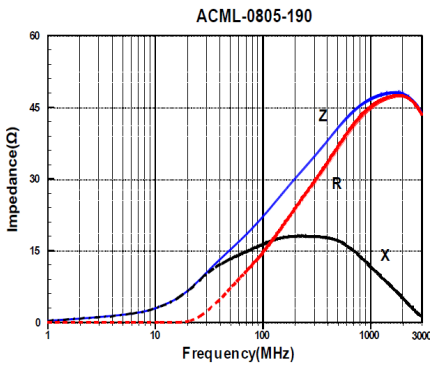
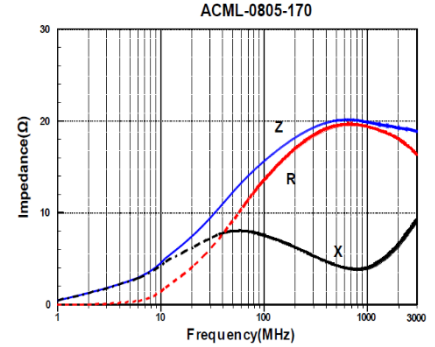
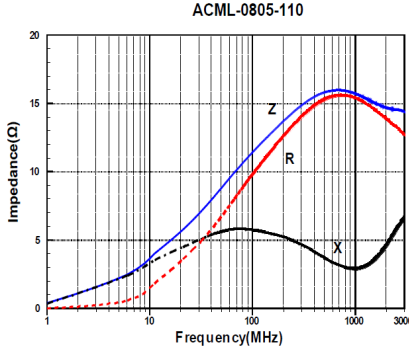
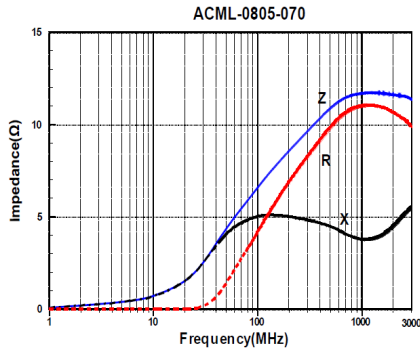


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Electrical Specifications



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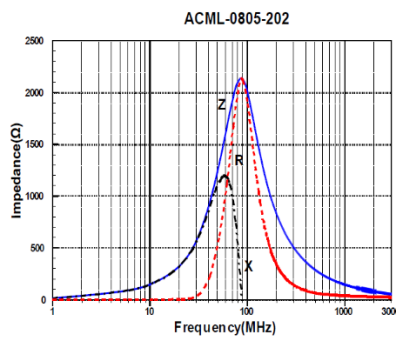
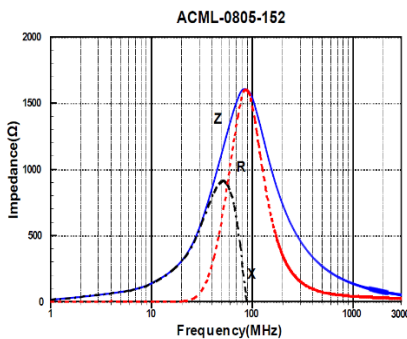
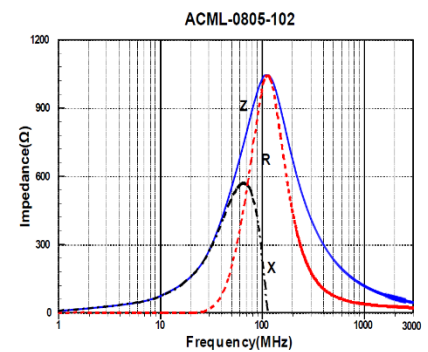
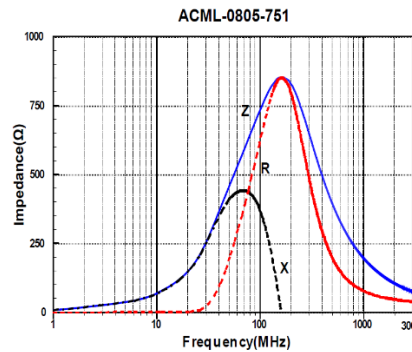
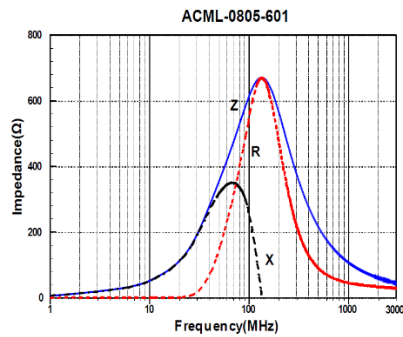
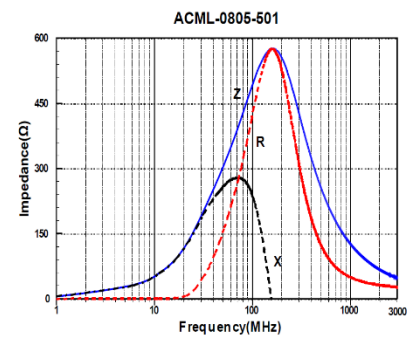
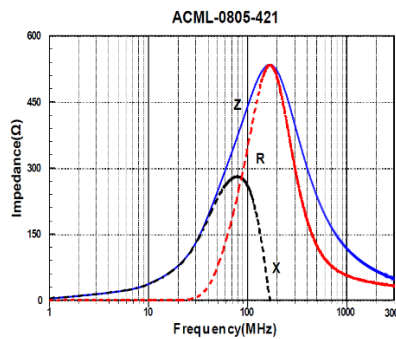
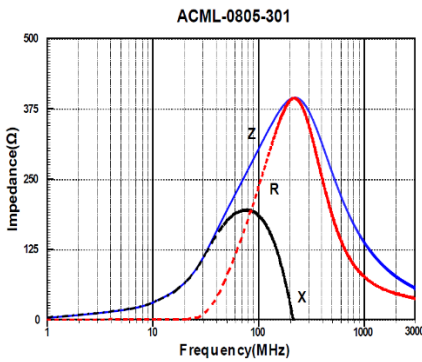
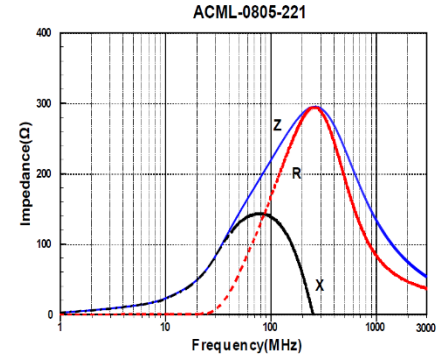
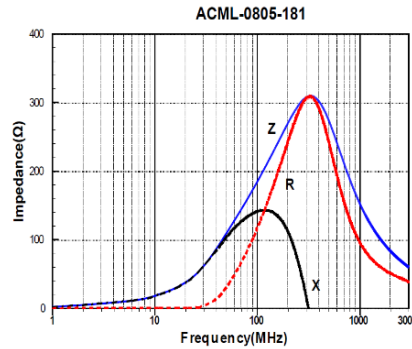
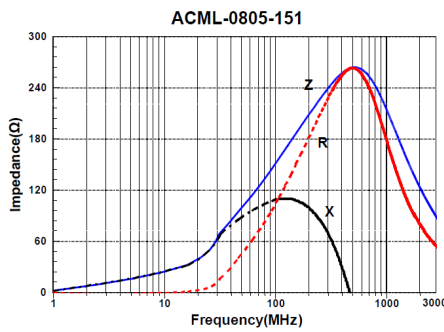


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Mechanical Specifications



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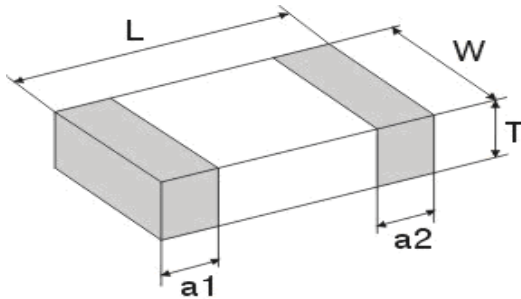


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 MSL Level = 1

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

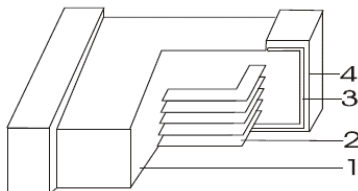
Part Identification

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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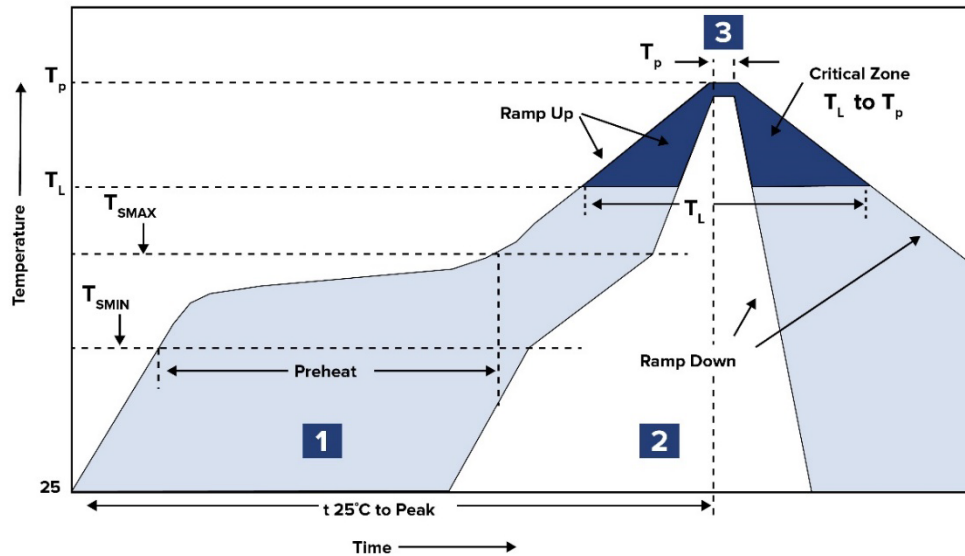


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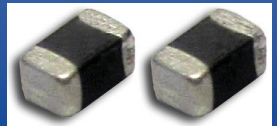
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Reflow Profile



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

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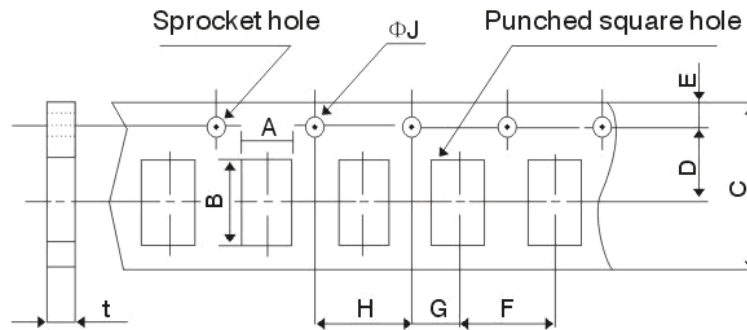
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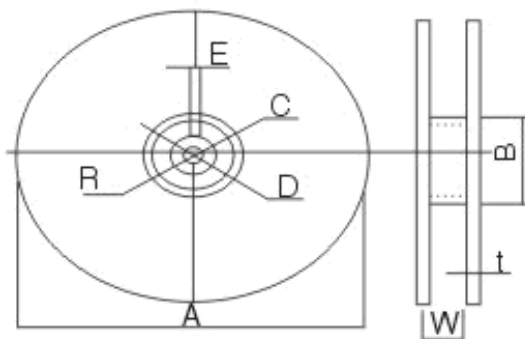
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RoHS/RoHS II Compliant
MSL Level = 1

Packaging

T: Tape & Reel 4,000pcs/reel



| A | B | C | D | E | F | G | H | ΦJ | 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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