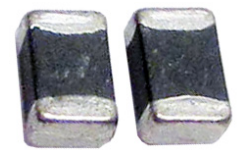


LARGE CURRENT/LOW DCR MULTILAYER CHIP BEAD



1.65 x 0.8 x 0.8mm

ACML-0603U

RoHS
Compliant

FEATURES:

- Suitable for large current applications, current rating up to 6A
- Nickel barrier terminations provide excellent solder heat resistance
- Suitable for flow and reflow soldering
- Other sizes are available

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

Operating Temperature **Storage Temperature**
 -55°C to +125°C -10°C to +40°C, 70% RH max.

| Part Number | Impedance (Ω) ± 25% | Z Test Freq. (MHz) | DCR (mΩ) Max. | Ir (mA) Max. |
|-----------------|------------------------|-----------------------|------------------|--------------|
| ACML-0603U-300 | 30 | 100 | 60 | 1800 |
| ACML-0603U-600 | 60 | 100 | 100 | 1200 |
| ACML-0603U-101A | 100 | 100 | 150 | 1000 |
| ACML-0603U-220 | 22 | 100 | 10 | 6000 |
| ACML-0603U-700 | 70 | 100 | 20 | 4000 |
| ACML-0603U-331 | 330 | 100 | 70 | 1500 |
| ACML-0603U-391 | 390 | 100 | 120 | 1200 |
| ACML-0603U-471 | 470 | 100 | 120 | 1200 |
| ACML-0603U-101B | 100 | 100 | 30 | 3000 |
| ACML-0603U-181 | 180 | 100 | 50 | 2000 |
| ACML-0603U-221 | 220 | 100 | 50 | 2000 |
| ACML-0603U-601 | 600 | 100 | 150 | 1000 |

Test Conditions and equipments

DCR: Milliohmmeter-HP4338B or equivalent.

Z: RF Impedance /Material Analyzer-HP4291B or equivalent; Fixture: HP16192A;

Ir: Electric Power, Electric current meter, Thermometer. Ir is direct electric current as chip surface temperature rose by 20°C against chip initial surface temperature (Ta)

Test Frequency: 100MHz, -20dBm or 50mV

Unless specified, test condition should be Temp.=5~35°C, Humidity=45~85%.

PART NUMBER IDENTIFICATION

ACML-0603U- [] - []

Impedance Code
 Please refer to the Table

Packaging
 T: 4kpcs/reel

LARGE CURRENT/LOW DCR MULTILAYER CHIP BEAD

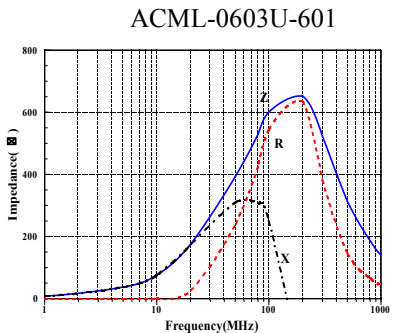
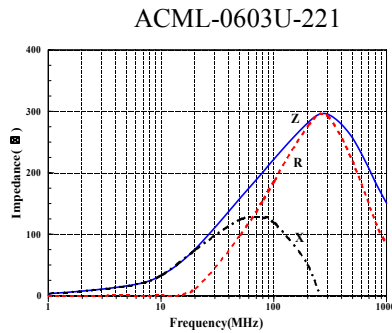
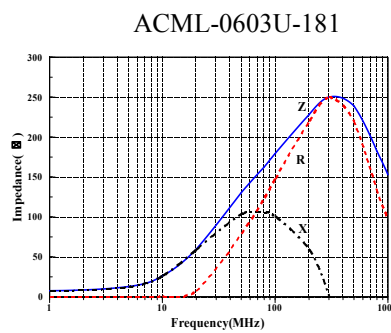
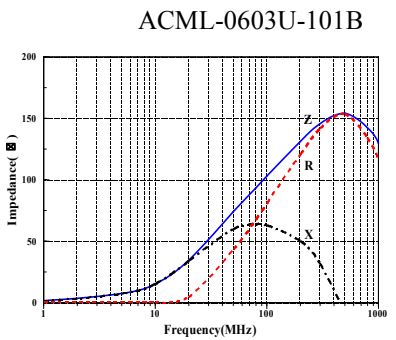
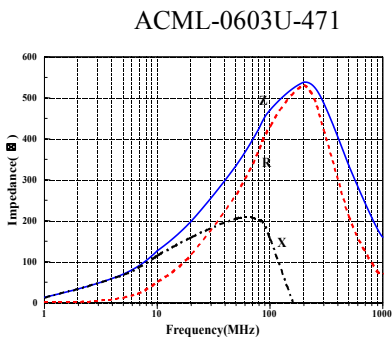
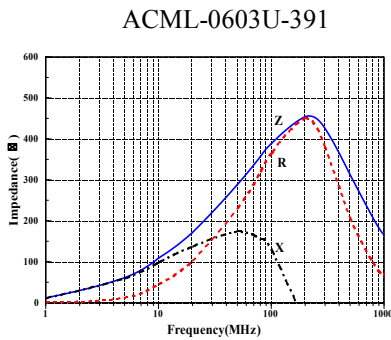
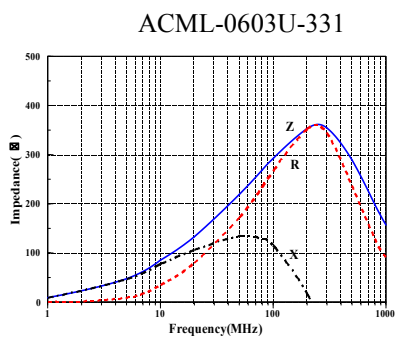
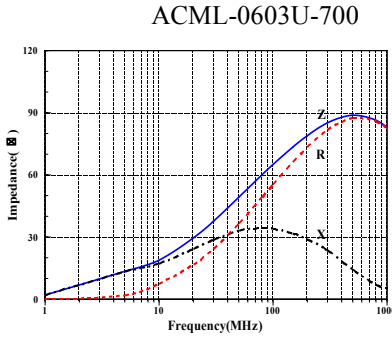
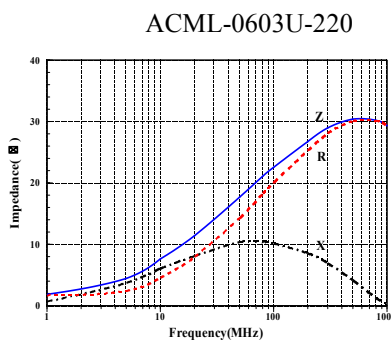
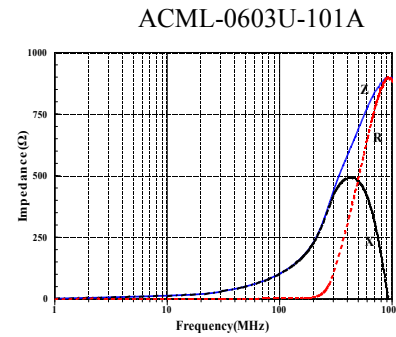
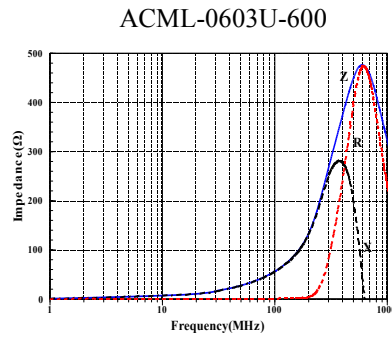
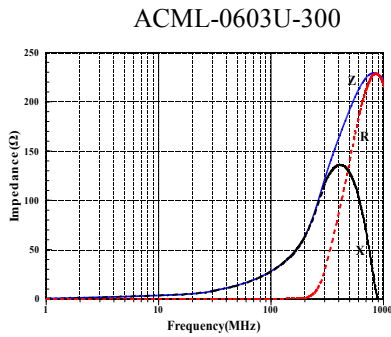
ACML-0603U

RoHS
Compliant



1.65 x 0.8 x 0.8mm

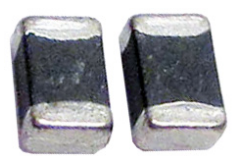
IMPEDANCE FREQUENCY CHARACTERISTICS



LARGE CURRENT/LOW DCR MULTILAYER CHIP BEAD

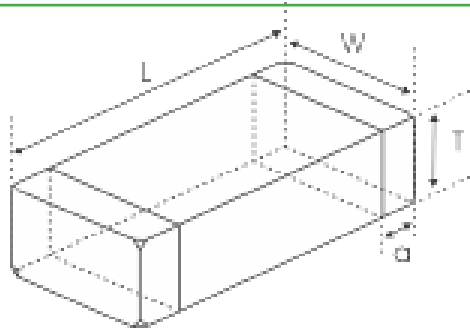
ACML-0603U

RoHS
Compliant



1.65 x 0.8 x 0.8mm

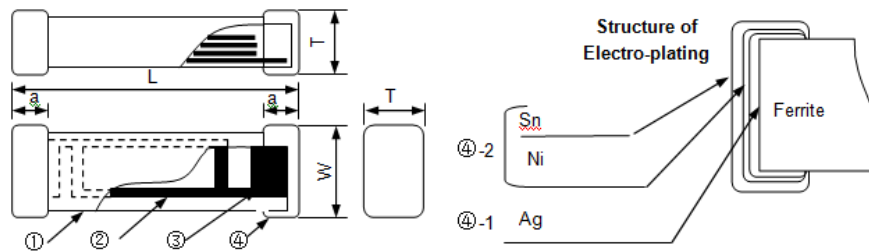
OUTLINE DIMENSIONS



| Series | L | W | T | a |
|------------|-----------|-----------|-----------|-----------|
| ACML-0603U | 1.65±0.15 | 0.80±0.15 | 0.80±0.15 | 0.30±0.20 |

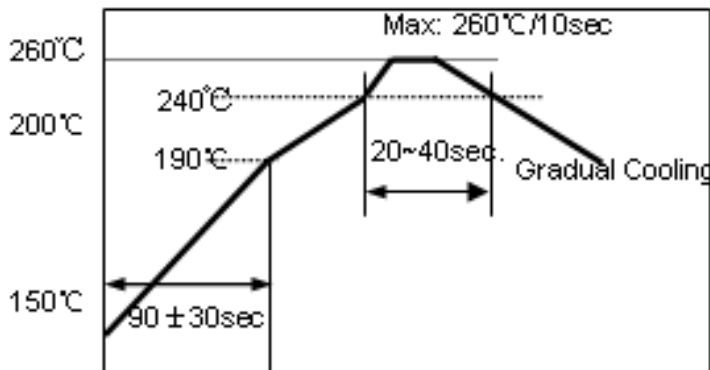
Dimension: mm

Materials



| Code | Part Name | Material Name |
|------|--------------------------------|--------------------------------|
| ① | Ferrite Body | Ferrite Powder |
| ② | Inner Coils | Silver Paste |
| ③ | Pull-out Electrode (Ag) | Silver Paste |
| ④-1 | Terminal Electrode: Inside Ag | Termination Silver Composition |
| ④-2 | Electro-Plating: Ni/Sn plating | Plating Chemicals |

REFLOW PROFILE



- 1~2 °C /sec. Ramp
- Pre-heating: 150~190 °C /90±30 sec.
- Time above 240 °C: 20~40sec
- Peak temperature: 260 °C Max./10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Max.2 times for re-flowing

LARGE CURRENT/LOW DCR MULTILAYER CHIP BEAD



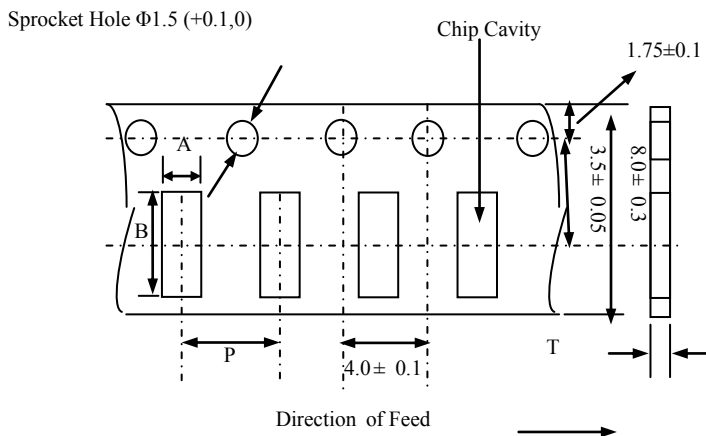
1.65 x 0.8 x 0.8mm

ACML-0603U

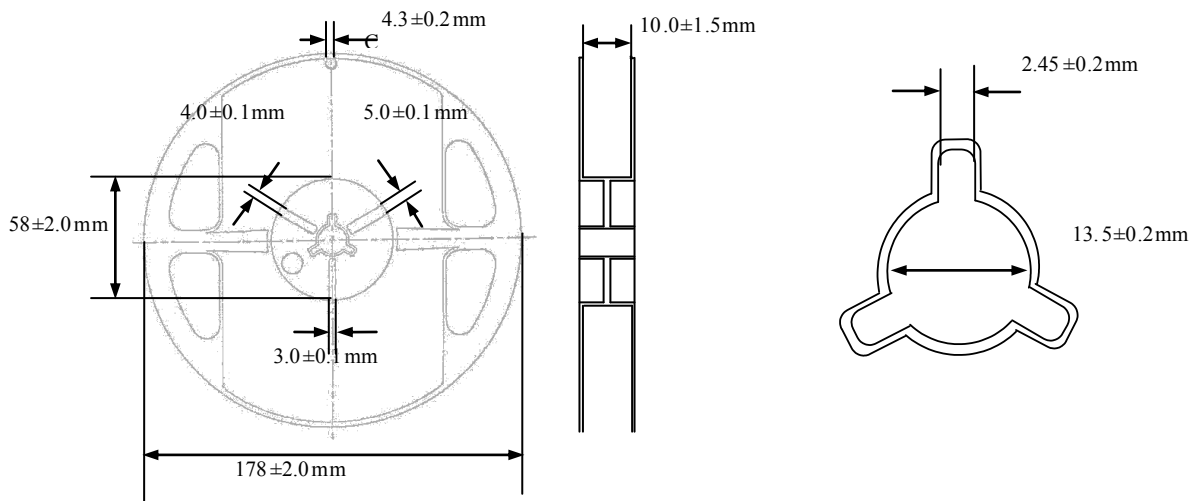
RoHS
Compliant

TAPE & REEL

T= tape and reel (4,000pcs/reel)



| A | B | P | T Max |
|---------|---------|---------|-------|
| 1.0±0.2 | 1.8±0.2 | 4.0±0.1 | 1.1 |



Dimension: mm

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