

FEATURES:

- Effective for suppressing common mode noise at high frequency
- Excellent solderability
- Compact design

APPLICATIONS:

- Common mode noise suppression of differential signal lines in high speed and high-density digital equipments such as USB 2.0, IEEE1394, LVDS, Digital Camera, Scanner, etc.
- Digital audio and video equipments such as PDA, DSC, DVC, CD Player, DVD Player, etc.

ELECTRICAL SPECIFICATIONS:

Operating Temperature: -40°C to +85°C

Storage Temperature: -10°C to +40°C, 70% RH max

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|----------------------------------|---------|---------|---------|-------|----------------|
| Center Frequency | ---- | 480.0 | ---- | MHz | |
| Common Mode Attenuation | 10 | ---- | ---- | dB | @130MHz ~ 1GHz |
| Differential Mode Insertion Loss | ---- | ---- | 0.6 | dB | @240MHz |
| DC Resistance | ---- | ---- | 2.0 | Ω | |
| Rated Current | ---- | ---- | 200 | mA | |
| Characteristic Impedance | 90 | | | Ω | |

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- Ambient Temperature: 20±15°C
- Relative Humidity: 65%±20%
- Air Pressure: 86 KPa to 106 KPa

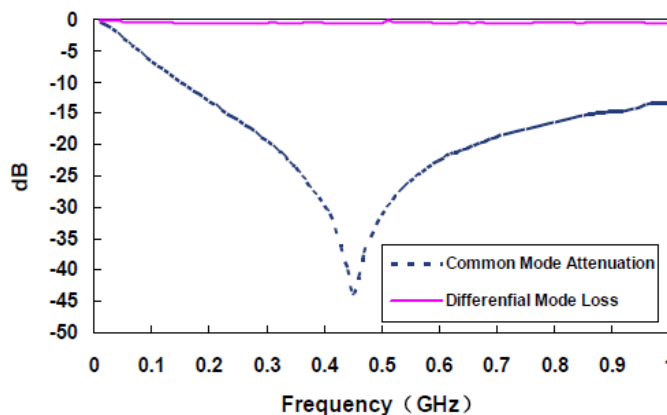
Visual Examination

- Inspection Equipment: 20X magnifier

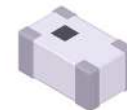
Electrical Test

- Impedance Analyzer: HP4991A.
- Network Analyzer: HP8719ES.

ELECTRICAL PROPERTIES



Common Mode Filter



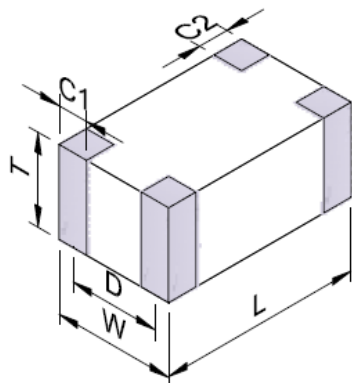
3.2 x 1.6 x 0.9mm

ACMF-31B



RoHS
Compliant

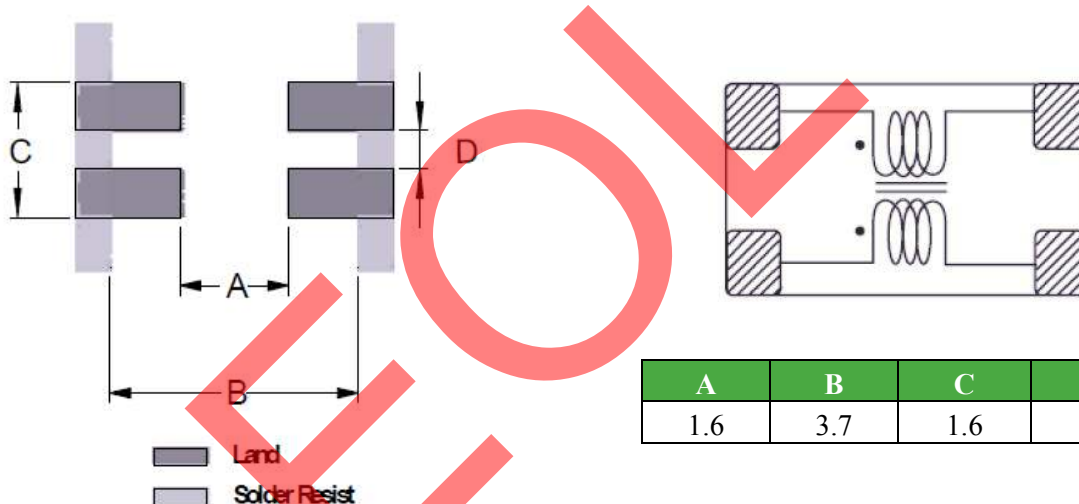
OUTLINE DRAWING:



| L | W | T | C1 | C2 | D |
|---------|---------|---------|---------|---------|---------|
| 3.2±0.2 | 1.6±0.2 | 0.9±0.1 | 0.5±0.2 | 0.4±0.2 | 1.1±0.1 |

Recommended Land Pattern

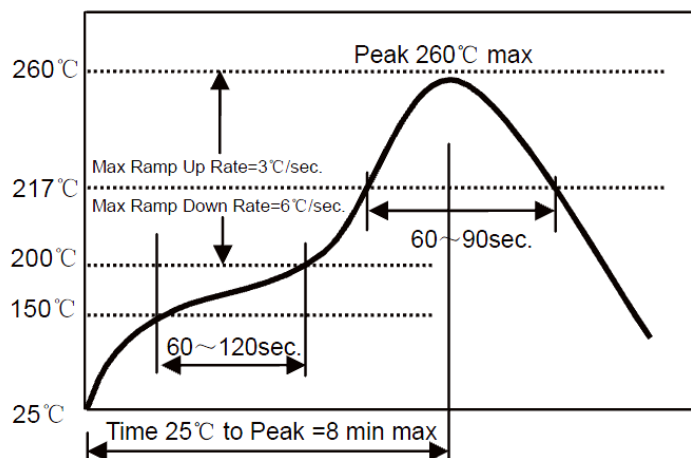
Schematic



| A | B | C | D |
|-----|-----|-----|-----|
| 1.6 | 3.7 | 1.6 | 0.4 |

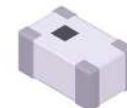
Dimension: mm

REFLOW PROFILE:



- Preheat condition: 150 ~200°C/60~120sec.
- Allowed time above 217 °C: 60~90sec.
- Max temp: 260 °C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max





3.2 x 1.6 x 0.9mm

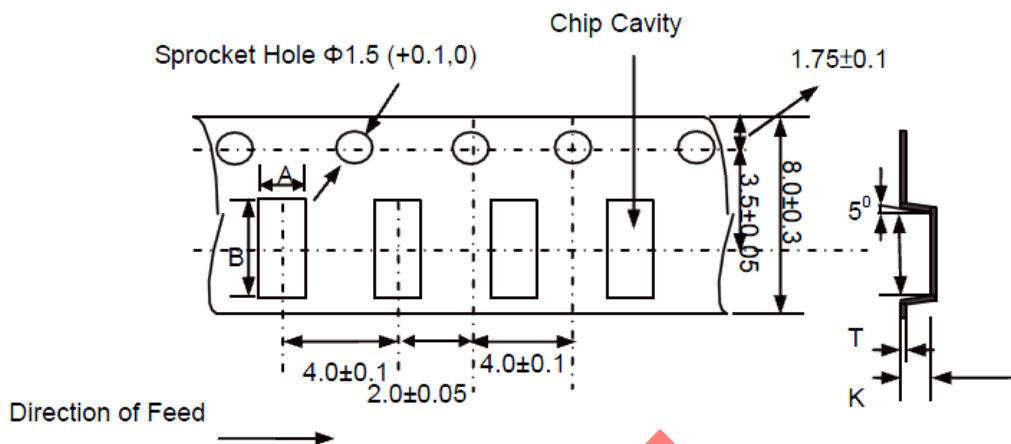
ACMF-31B



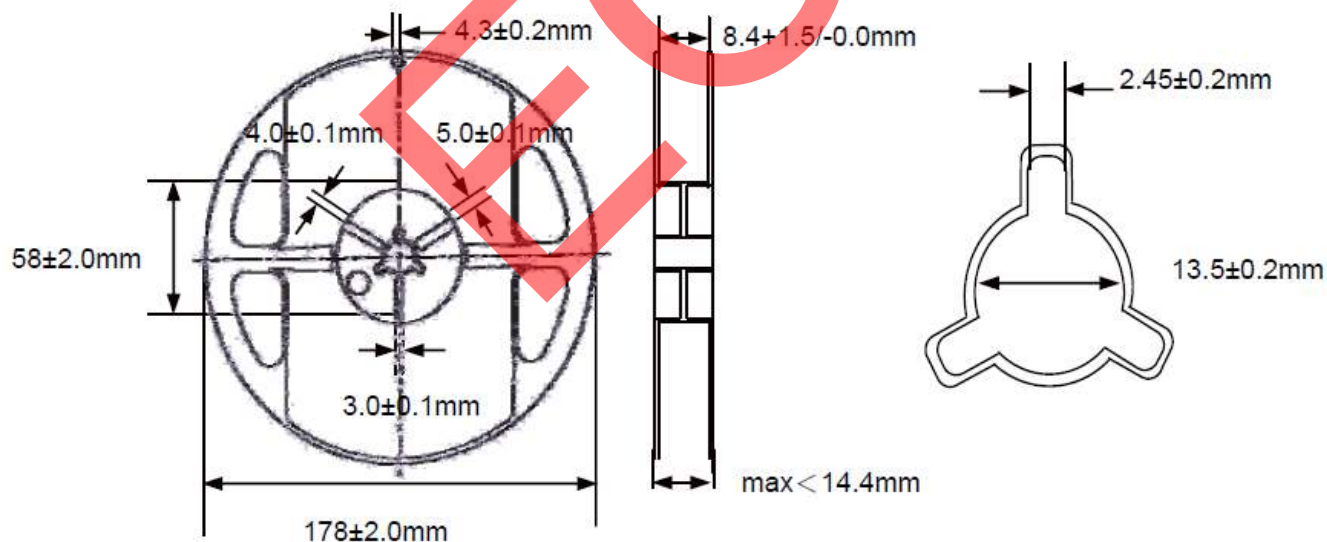
RoHS
Compliant

TAPE & REEL:

T= tape and reel (3,000pcs/reel)



| A | B | K max | T max |
|-----------|-----------|-------|-------|
| 1.85±0.10 | 3.50±0.10 | 1.14 | 0.27 |



Dimension: mm

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