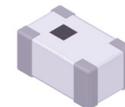


Common Mode Filter

ACMF-21A



RoHS
Compliant



2.0 x 1.2 x 0.9mm

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 | 9 | ----- | ----- | dB | @130MHz ~ 1GHz |
| | 14 | ----- | ----- | dB | @240MHz ~ 1GHz |
| Differential Mode Insertion Loss | ----- | ----- | 0.6 | dB | @240MHz |
| DC Resistance | ----- | ----- | 1.6 | Ω | |
| Rated Current | ----- | ----- | 200 | mA | |
| Characteristic Impedance | | 90 | | Ω | |

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

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

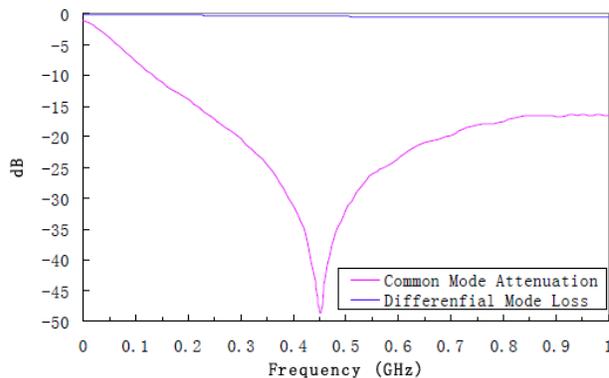
Visual Examination

- a. Inspection Equipment: 20X magnifier

Electrical Test

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

ELECTRICAL PROPERTIES

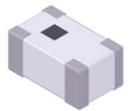


Common Mode Filter

ACMF-21A

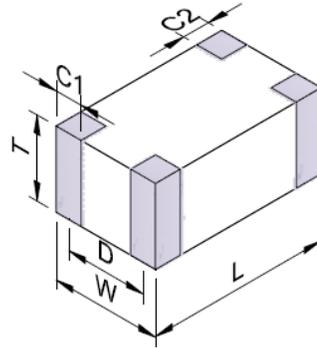


RoHS
Compliant



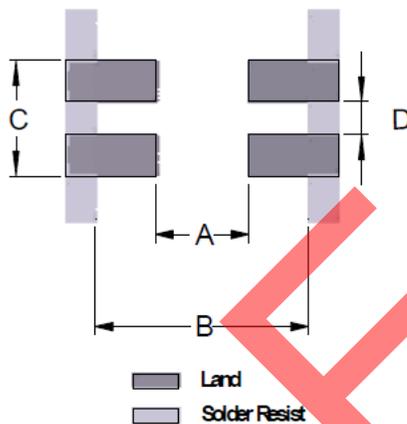
2.0 x 1.2 x 0.9mm

OUTLINE DRAWING:

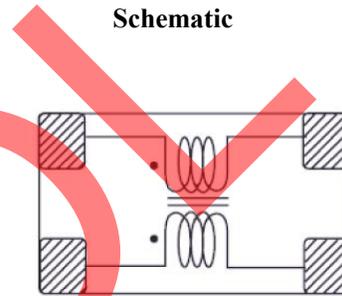


| L | W | T | C1 | C2 | D |
|---------|---------|---------|---------|---------|---------|
| 2.0±0.2 | 1.2±0.2 | 0.9±0.1 | 0.4±0.2 | 0.4±0.2 | 0.8±0.1 |

Recommended Land Pattern



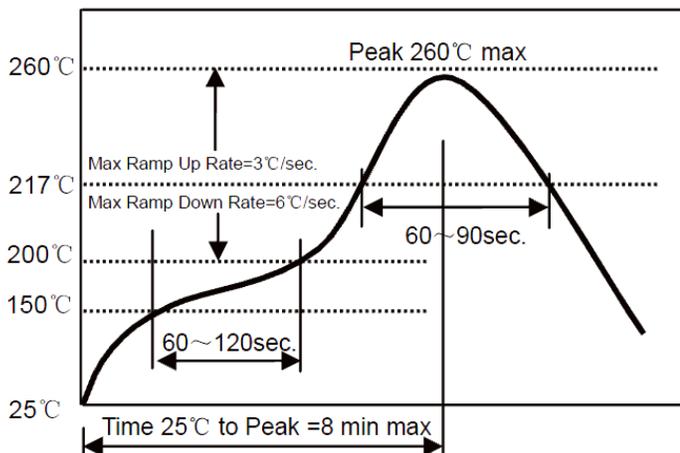
Schematic



| A | B | C | D |
|-----|-----|-----|-----|
| 0.8 | 2.6 | 1.2 | 0.4 |

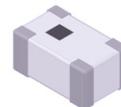
Dimension: mm

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





2.0 x 1.2 x 0.9mm

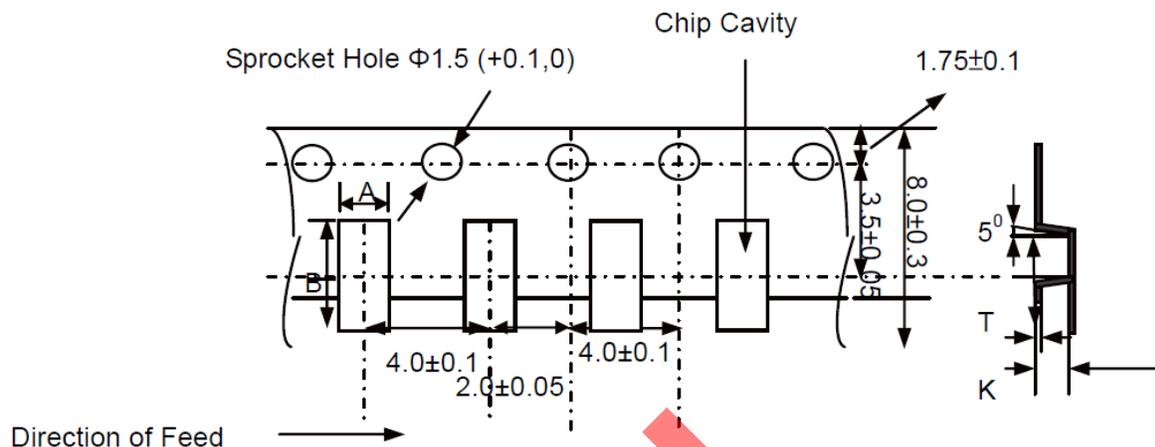
ACMF-21A



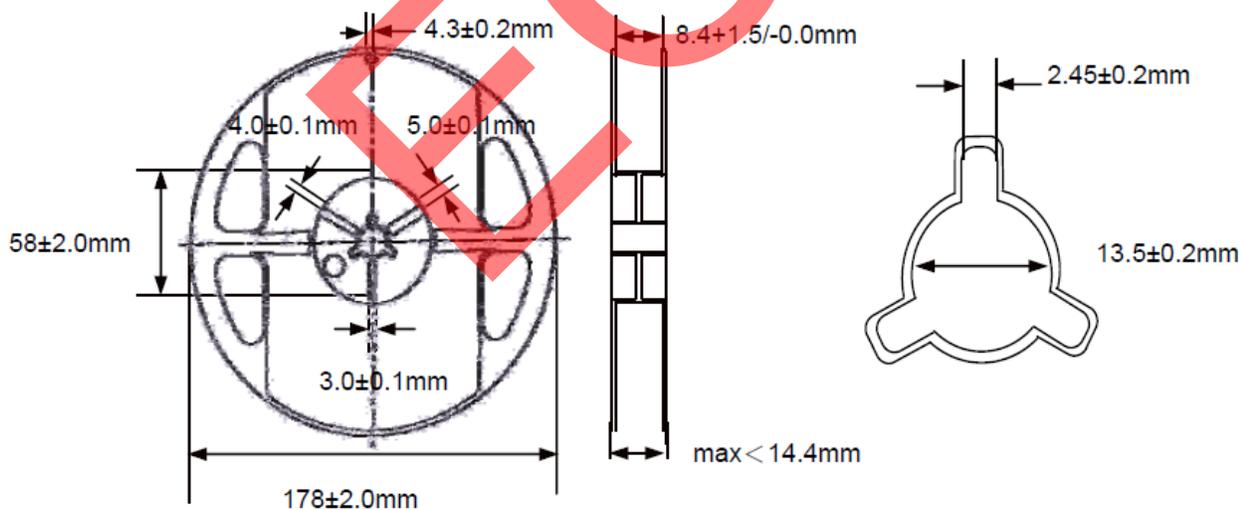
RoHS
Compliant

TAPE & REEL:

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



| A | B | K max | T max |
|-----------|-----------|-------|-------|
| 1.42±0.10 | 2.25±0.10 | 1.14 | 0.27 |



Dimension: mm

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