

3.2 x 1.6 x 0.9mm

RoHS  
Compliant

# Common Mode Filter

ACMF-31

## ► 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:

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

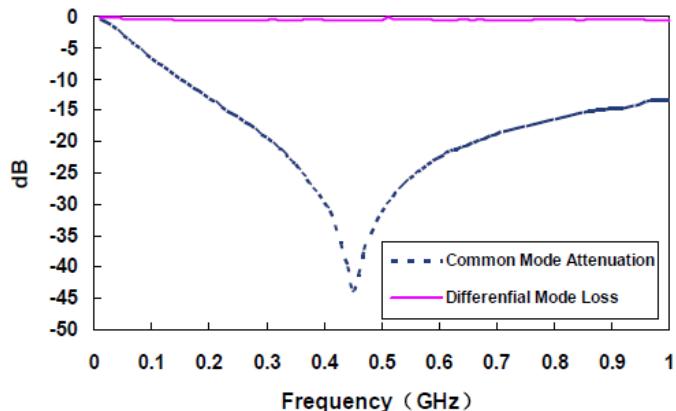
### Visual Examination

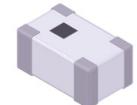
- a. Inspection Equipment: 20X magnifier

### Electrical Test

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

## ► ELECTRICAL PROPERTIES





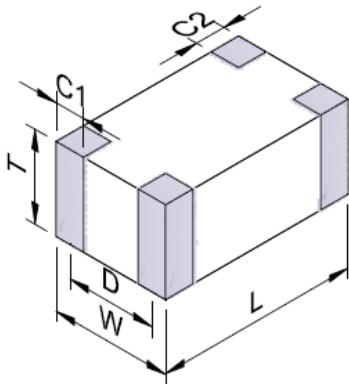
3.2 x 1.6 x 0.9mm

RoHS  
Compliant

# Common Mode Filter

ACMF-31B

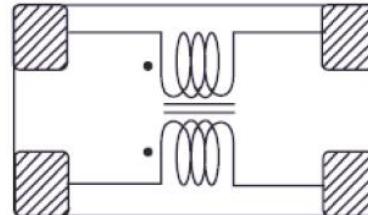
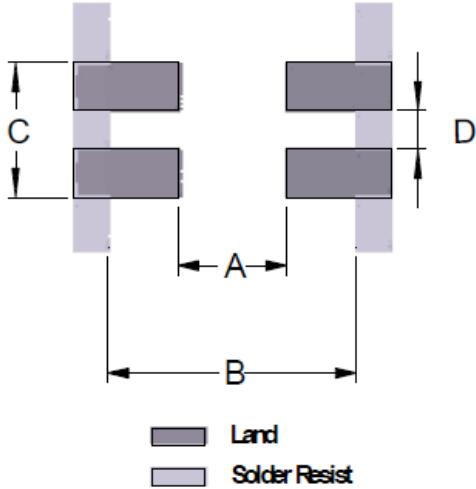
## OUTLINE DRAWING:



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

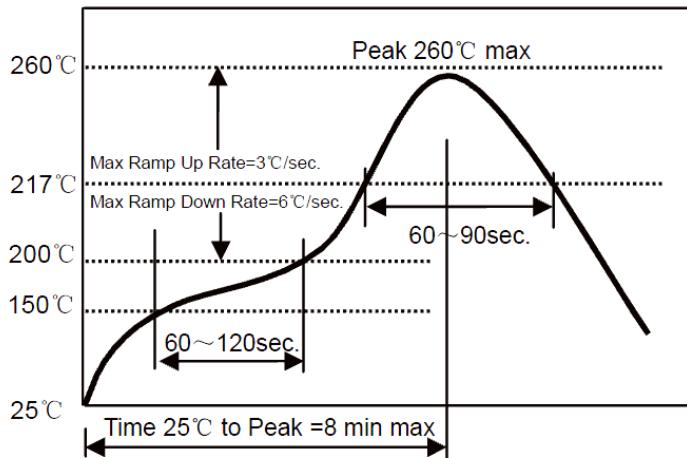
Schematic



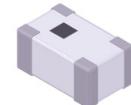
A	B	C	D
1.6	3.7	1.6	0.4

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

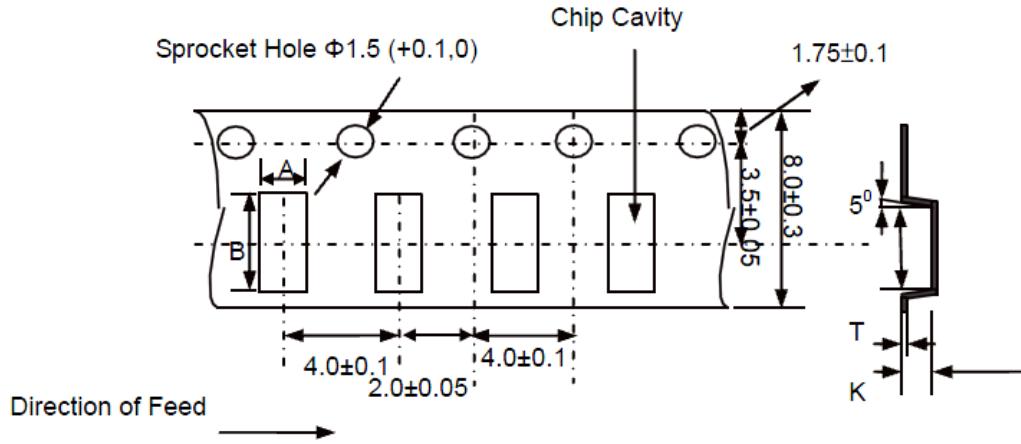
RoHS  
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# Common Mode Filter

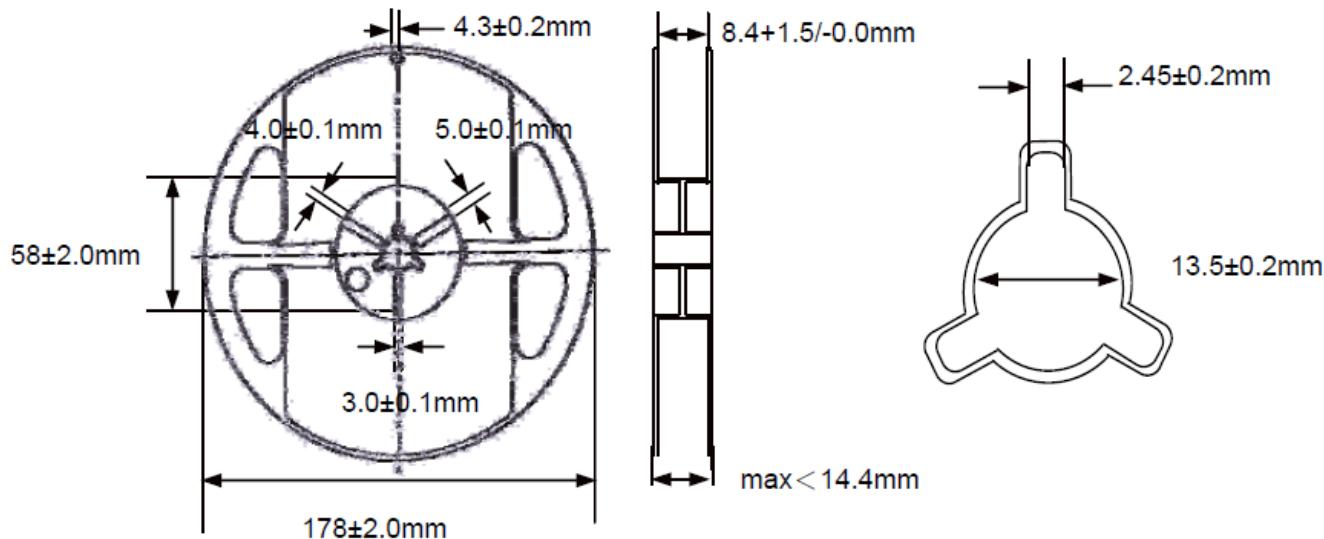
ACMF-31B

## ➤ 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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