

Common Mode Filter

ACMF-21B



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

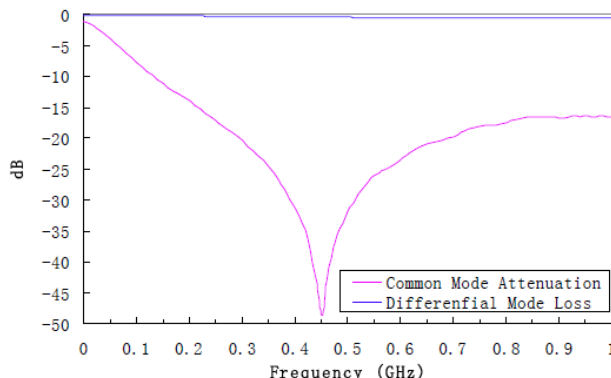
Visual Examination

- a. Inspection Equipment: 20X magnifier

Electrical Test

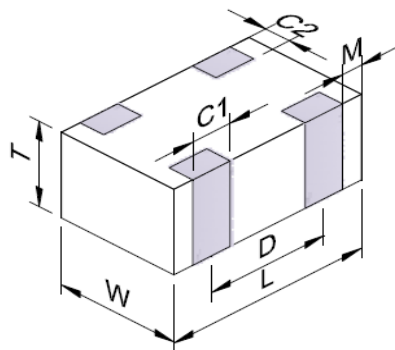
- a. Impedance Analyzer: HP4991A.
- b. Network Analyzer: HP8719ES.

ELECTRICAL PROPERTIES



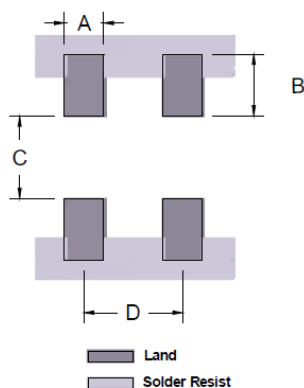


OUTLINE DRAWING:

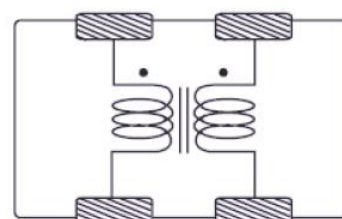


L	W	T	C1	C2	D	M
2.0±0.2	1.2±0.2	0.9±0.1	0.4±0.2	0.25±0.15	1.2±0.1	0.2±0.1

Recommended Land Pattern



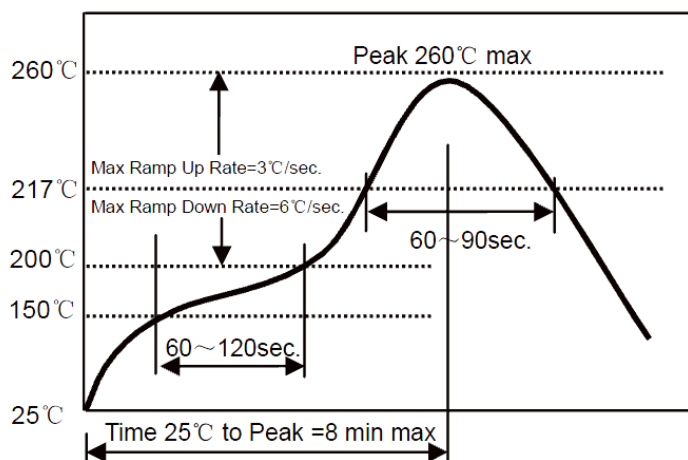
Equivalent Circuit



A	B	C	D
0.4	0.6	0.8	1.0

Dimension: mm

REFLOW PROFILE:



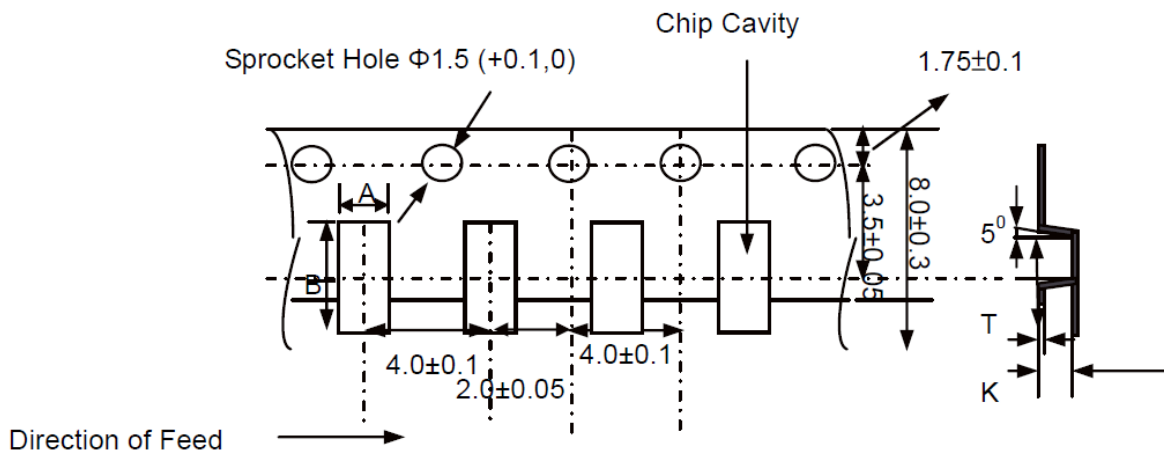
- Preheat condition: 150 ~200°C/60~120sec.
- Allowed time above 217 °C: 60~90sec.
- Max temp: 260 °C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max



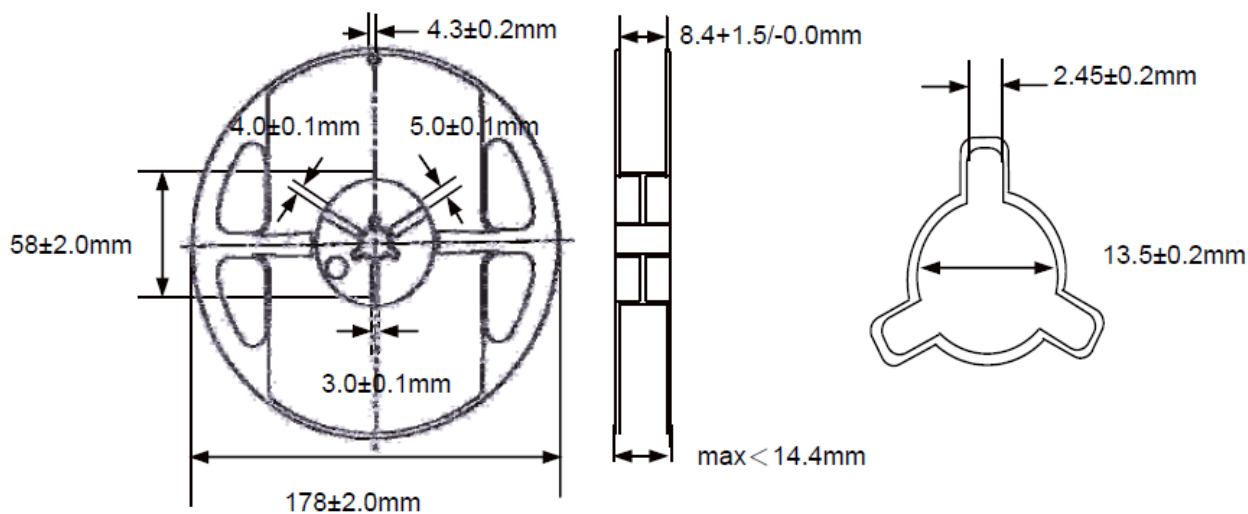


TAPE & REEL:

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

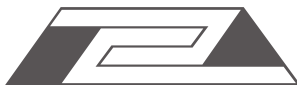


A	B	K max	T max
1.42 ± 0.10	2.25 ± 0.10	1.14	0.27



Dimension: mm

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AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com