3-Terminal EMI Filter

AEMIF-0805

RoHS/RoHS II Compliant

2.0 x 1.2 x 0.96mm

FEATURES:

- Multilayer and low profile structure enables high density mounting
- Closed magnetic circuit minimizes crosstalk
- Sharp attenuation characteristic beyond cutoff frequency achieves excellent EMI suppression
- Wide range of cutoff frequencies from 100MHz to 500MHz available

APPLICATIONS:

- Noise removal from signal lines in digital cameras, computers, game consoles, LED TVs, etc.
- Suppression of noise generated by high speed digital circuits such as clock lines

STANDARD SPECIFICATIONS:

Operating Temperature
-40ºC to +85ºC

Storage Temperature
-10ºC to +40ºC, 70% RH max. in tape and reel

Part Number	-3dB Cut-off Frequency	Cut-off Frequency Tolerance	Rated Voltage	Rated Current	Min. Insulation Resistance	Max. DC Resistance	Attenuation
Units	MHz	%	V	mA	MΩ	Ω	dB
AEMIF-0805-101M-16	100	M	16	200	200	1.5	20.0 dB min. at 250-2000 MHz
AEMIF-0805-151M-16	150	M	16	200	200	1.0	20.0 dB min. at 350-2000 MHz
AEMIF-0805-201M-16	200	M	16	250	200	1.0	20.0 dB min. at 450-2000 MHz
AEMIF-0805-301M-16	300	M	16	300	200	1.0	20.0 dB min. at 550-2000 MHz
AEMIF-0805-401M-16	400	M	16	300	200	0.8	20.0 dB min. at 800-2000 MHz
AEMIF-0805-501M-16	500	M	16	300	200	0.8	20.0 dB min. at 1000-2000 MHz

EOL

Test Equipment

Items	Test Equipment
Cut off Frequency	HP8753E or equivalent
DC Resistance	HP4338 or equivalent
Insulation Resistance	TH2682 or equivalent
Attenuation	HP8753E or equivalent

PART NUMBER IDENTIFICATION

AEMIF-0805-□□-□-□

Cutoff Frequency	Tolerance Code	Rated Voltage	Packaging
Please refer to the Table	M: ± 20%	Please refer to the Table	T: 4kpcs/reel

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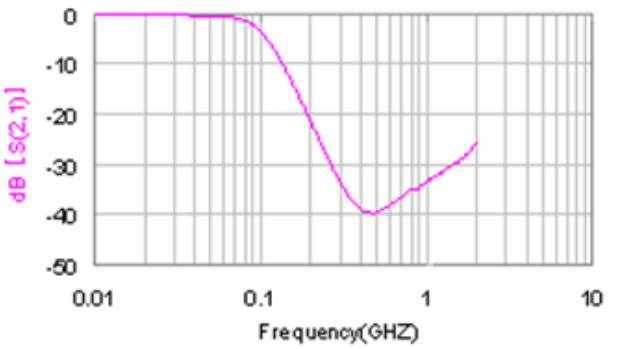
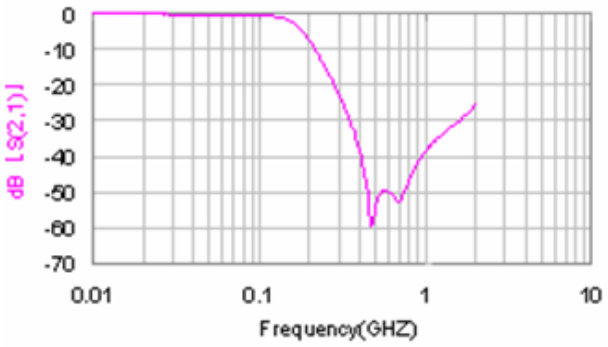
FREQUENCY CHARACTERISTIC

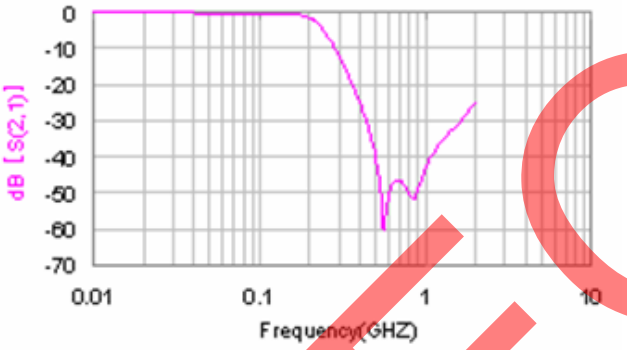
AEMIF-0805-101M-16



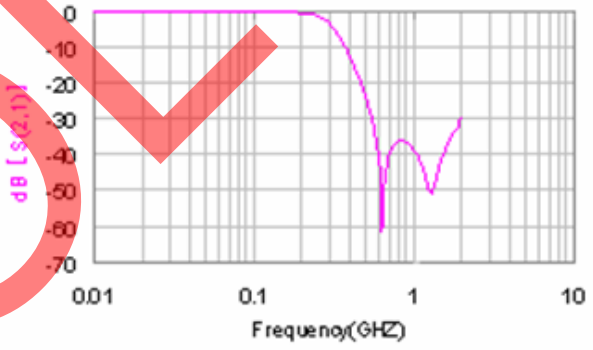
AEMIF-0805-151M-16



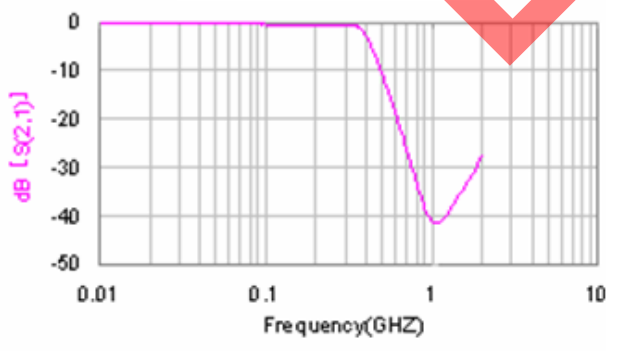
AEMIF-0805-201M-16



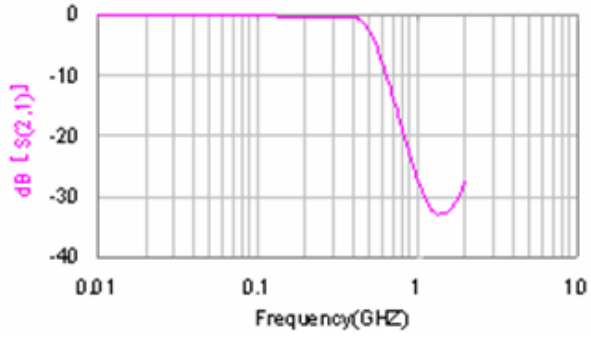
AEMIF-0805-301M-16



AEMIF-0805-401M-16



AEMIF-0805-501M-16



EOL

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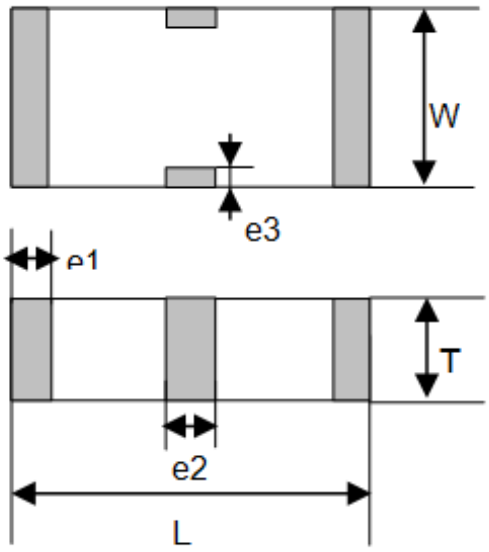
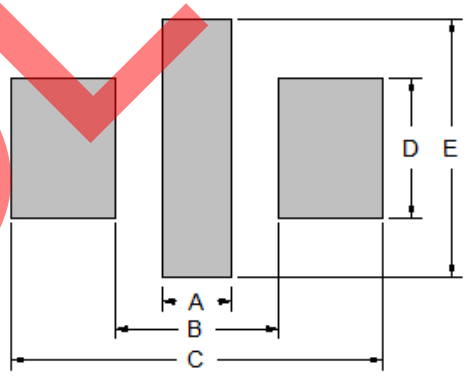
OUTLINE DIMENSION:



L	W	T	e1	e2	e3
2.0±0.2	1.2±0.2	0.96±0.2	0.3±0.15	0.5±0.15	0.3±0.15

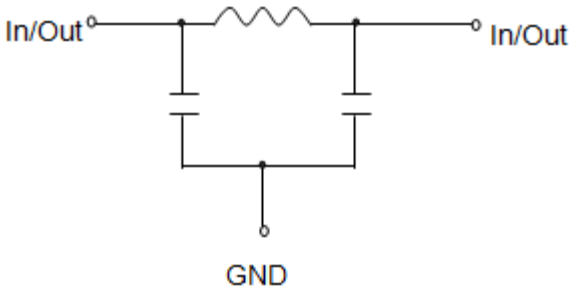
Recommended Land Pattern



A	B	C	D	E
0.6	1.4	3.2	1.2	2.2

Dimension: mm

EQUIVALENT CIRCUIT:



No polarity

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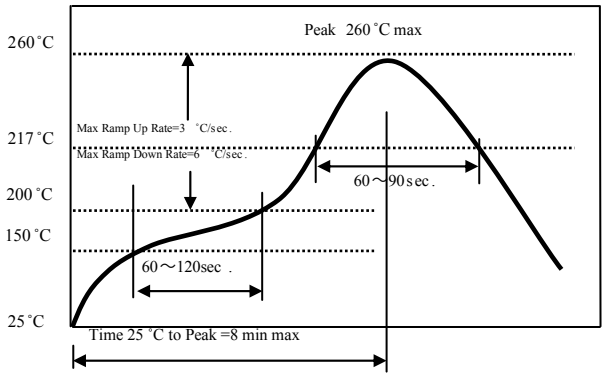
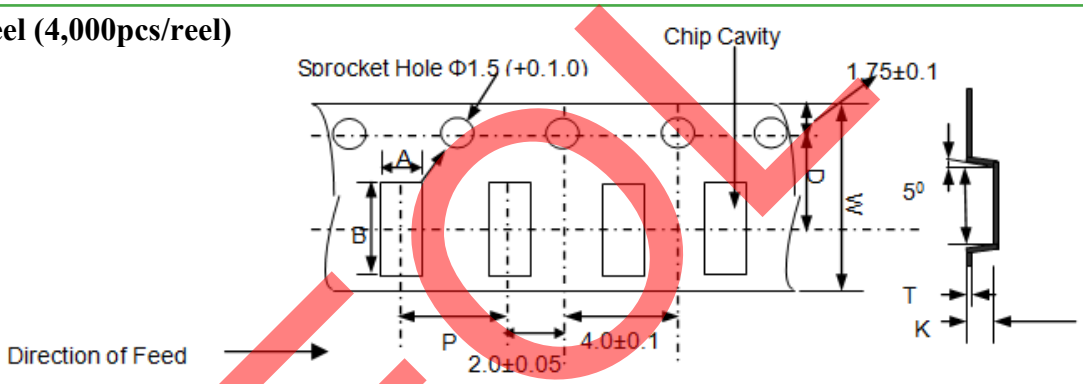
REFLOW PROFILE:



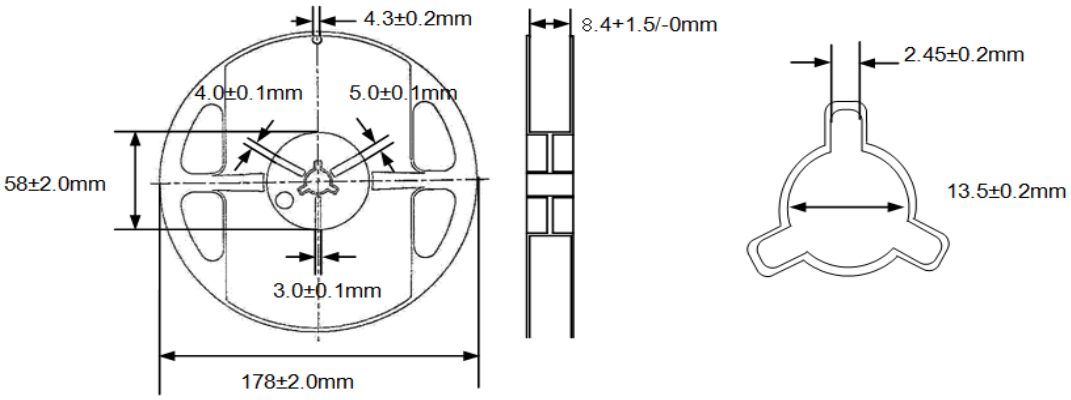
- Preheat condition: 150 ~200°C/60~120sec.
- Allowed time above 217 °C: 60~90sec.
- Max temp: 260 °C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2x max

TAPE & REEL

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



A	B	P	W	K max	T max
1.42	2.25	4.0	8.0	1.14	0.27



Dimension: mm

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Mouser Electronics

Authorized Distributor

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ABRACON:

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