3-Terminal EMI Filter

AEMIF-0603

RoHS/RoHS II Compliant

1.6 x 0.8 x 0.6mm

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

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
-40°C to +85°C

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

<table>
<thead>
<tr>
<th>Part Number Identification</th>
<th>-3dB Cut-off Frequency</th>
<th>Cut-off Frequency Tolerance</th>
<th>Rated Voltage</th>
<th>Rated Current</th>
<th>Min. Insulation Resistance</th>
<th>Max. DC Resistance</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEMIF-0603-401M-16</td>
<td>400</td>
<td>M</td>
<td>16</td>
<td>300</td>
<td>200</td>
<td>0.8</td>
<td>20.0 dB min. at 800-2000 MHz</td>
</tr>
</tbody>
</table>

Test Equipment

<table>
<thead>
<tr>
<th>Items</th>
<th>Test Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut off Frequency</td>
<td>HP8753E or equivalent</td>
</tr>
<tr>
<td>DC Resistance</td>
<td>HP4338 or equivalent</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>TH2682 or equivalent</td>
</tr>
<tr>
<td>Attenuation</td>
<td>HP8753E or equivalent</td>
</tr>
</tbody>
</table>

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Revised: 07.25.14
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FREQUENCY CHARACTERISTIC

OUTLINE DIMENSION:

Recommended Land Pattern

L | W | T | e1 | e2 | e3 |
1.6±0.2 | 0.8±0.2 | 0.6±0.2 | 0.2±0.15 | 0.4±0.2 | 0.2±0.15

A | B | C | D | E |
0.4 | 1.0 | 2.2 | 0.6 | 1.5

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)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>P</th>
<th>T max</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>1.80</td>
<td>4.0</td>
<td>0.75</td>
</tr>
</tbody>
</table>

Dimension: mm

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