High Performance Low Pass Filter

LP1206A2500ASTR

ITF TECHNOLOGY
The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.
The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES:
- Small size: 1206
- Frequency: 2500MHz
- Sharp attenuation slope
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

APPLICATIONS:
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN’s

FINAL QUALITY INSPECTION:
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:
- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION:
Nickel/Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

PART NUMBER CODE:
LP 1206 A XXXX ASTR
Frequency (MHz)

DIMENSIONS - mm (inches)
(Top View)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>3.08±0.1 (0.121±0.004)</td>
</tr>
<tr>
<td>W</td>
<td>1.60±0.1 (0.063±0.004)</td>
</tr>
<tr>
<td>T</td>
<td>0.87±0.1 (0.034±0.004)</td>
</tr>
<tr>
<td>A</td>
<td>0.61±0.25 (0.028±0.010)</td>
</tr>
<tr>
<td>B</td>
<td>0.35±0.15 (0.014±0.006)</td>
</tr>
</tbody>
</table>

TERMINALS AND LAYOUT (Top View)

IN Orientation Marking OUT
GND GND

RECOMMENDED PAD LAYOUT (mm)

F 1.70±0.05
G 0.78±0.05
K 1.91±0.10
M 0.54±0.025
N 1.93±0.05
P 0.21±0.04
R 1.80±0.04
S 0.20±0.04
D 0.6±0.1
**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 2500MHz</th>
<th>R.Loss @ 2500MHz</th>
<th>ATTENUATION [min.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A2500ASTR</td>
<td>0.7dB max.</td>
<td>-15dB</td>
<td>-25dB at 4000-5000MHz</td>
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<tr>
<td></td>
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<td></td>
<td>-22dB at 5000-7500MHz</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>-15dB at 7500-8500MHz</td>
</tr>
</tbody>
</table>

![Graph showing electrical characteristics](image-url)