Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A0700ASTR – SMD Termination

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: 700MHz
• Sharp attenuation slope
• Characteristic impedance: 500hm
• 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.

HOW TO ORDER

<table>
<thead>
<tr>
<th>LP</th>
<th>1206</th>
<th>A</th>
<th>0700</th>
<th>A</th>
<th>S</th>
<th>TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Size</td>
<td>Type</td>
<td>Frequency (MHz)</td>
<td>Sub-Type</td>
<td>Termination</td>
<td>Taped &amp; Reeled</td>
</tr>
</tbody>
</table>

DIMENSIONS (TOP VIEW)

TERMINAL AND LAYOUT (TOP VIEW)

RECOMMENDED PAD LAYOUT

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer by reference and should be reviewed in full before placing any order.
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A0700ASTR – SMD Termination

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 700MHz</th>
<th>R.Loss @ 700MHz</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A0700ASTR</td>
<td>0.8dB max.</td>
<td>-20dB</td>
<td>-20dB at 980MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-45dB at 1400MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-45dB at 2100MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-30dB at 2800MHz</td>
</tr>
</tbody>
</table>

TYPICAL ELECTRICAL PERFORMANCE
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A0860ASTR – SMD Termination

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: 860MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- 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 freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

HOW TO ORDER

<table>
<thead>
<tr>
<th>LP</th>
<th>1206</th>
<th>A</th>
<th>0860</th>
<th>A</th>
<th>S</th>
<th>TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Size</td>
<td>Type</td>
<td>Frequency (MHz)</td>
<td>Sub-Type</td>
<td>Termination</td>
<td>Taped &amp; Reeled</td>
</tr>
</tbody>
</table>

DIMENSIONS (TOP VIEW)

TERMINAL AND LAYOUT (TOP VIEW)

RECOMMENDED PAD LAYOUT

mm (inches)

| L | 3.08±0.1 (0.121±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.024±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |
**Thin-Film RF/Microwave Filters**

1206 High Performance Low Pass 8W

LP1206A0860ASTR – SMD Termination

---

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 860MHz</th>
<th>R.Loss @ 860MHz</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A0860ASTR</td>
<td>0.85dB max.</td>
<td>-18dB</td>
<td>-25dB at 1204MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-45dB at 1720MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-45dB at 2580MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-30dB at 3440MHz</td>
</tr>
</tbody>
</table>

---

**TYPICAL ELECTRICAL PERFORMANCE**

---

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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: 1000MHz
- 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)
**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 1000MHz</th>
<th>R.Loss @ 1000MHz</th>
<th>ATTENUATION [min.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A1000ASTR</td>
<td>0.7dB max.</td>
<td>-15dB</td>
<td>-30dB at 1500-2000MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 2000-3000MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 3000-4000MHz</td>
</tr>
</tbody>
</table>
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: 1500MHz
- 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 (TOP VIEW)**

<table>
<thead>
<tr>
<th>Dimension (mm)</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>3.08±0.1</td>
</tr>
<tr>
<td>W</td>
<td>1.60±0.1</td>
</tr>
<tr>
<td>T</td>
<td>0.87±0.1</td>
</tr>
<tr>
<td>A</td>
<td>0.61±0.25</td>
</tr>
<tr>
<td>B</td>
<td>0.35±0.15</td>
</tr>
</tbody>
</table>

**TERMINALS (TOP VIEW)**

IN [ ] GND

Orientation

Marking

OUT [ ] GND

**RECOMMENDED PAD LAYOUT**

<table>
<thead>
<tr>
<th>Dimension (mm)</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>1.79±0.05</td>
</tr>
<tr>
<td>G</td>
<td>0.78±0.05</td>
</tr>
<tr>
<td>K</td>
<td>1.91±0.10</td>
</tr>
<tr>
<td>M</td>
<td>0.54±0.025</td>
</tr>
<tr>
<td>N</td>
<td>1.93±0.05</td>
</tr>
<tr>
<td>P</td>
<td>0.21±0.04</td>
</tr>
<tr>
<td>R</td>
<td>1.80±0.04</td>
</tr>
<tr>
<td>S</td>
<td>0.26±0.04</td>
</tr>
<tr>
<td>D</td>
<td>0.6±0.1</td>
</tr>
</tbody>
</table>
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A1500ASTR – SMD Termination

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 1500MHz</th>
<th>R.Loss @ 1500MHz</th>
<th>ATTENUATION [min.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A1500ASTR</td>
<td>0.8dB max.</td>
<td>-15dB</td>
<td>-30dB at 2000-3000MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 3000-4000MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-20dB at 4500-6000MHz</td>
</tr>
</tbody>
</table>

![Graph showing electrical characteristics](image-url)
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A2000ASTR – SMD Termination

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: 2000MHz
• 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)
ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 2000MHz</th>
<th>R.Loss @ 2000MHz</th>
<th>ATTENUATION [min.]</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A2000ASTR</td>
<td>0.7dB max.</td>
<td>-15dB</td>
<td>-27dB at 3000-4000MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 4000-6000MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-20dB at 6000-8000MHz</td>
</tr>
</tbody>
</table>

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121219
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: 500hm
- 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

**DIMENSIONS (TOP VIEW)**

**TERMINALS AND LAYOUT (TOP VIEW)**

**RECOMMENDED PAD LAYOUT**
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>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-22dB at 5000-7500MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-15dB at 7500-8500MHz</td>
</tr>
</tbody>
</table>

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Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A3200ASTR – SMD Termination

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: 3.2GHz
• Sharp attenuation slope
• Characteristic impedance: 500hm
• 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 freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

HOW TO ORDER

<table>
<thead>
<tr>
<th>LP</th>
<th>1206</th>
<th>A</th>
<th>3200</th>
<th>A</th>
<th>S</th>
<th>TR</th>
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<tbody>
<tr>
<td>Series</td>
<td>Size</td>
<td>Type</td>
<td>Frequency (MHz)</td>
<td>Sub-Type</td>
<td>Termination</td>
<td>Taped &amp; Reeled</td>
</tr>
</tbody>
</table>

DIMENSIONS (TOP VIEW)

TERMINAL AND LAYOUT (TOP VIEW)

RECOMMENDED PAD LAYOUT

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.
**Thin-Film RF/Microwave Filters**  
**1206 High Performance Low Pass 8W**  
**LP1206A3200ASTR – SMD Termination**

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 3.2GHz</th>
<th>R.Loss @ 3.2GHz</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A3200ASTR</td>
<td>0.85dB max.</td>
<td>-20dB</td>
<td>-30dB at 4.4GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-40dB at 6.4GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 9.6GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 10GHz</td>
</tr>
</tbody>
</table>

**TYPICAL ELECTRICAL PERFORMANCE**

[Graph showing electrical performance]
**Thin-Film RF/Microwave Filters**

**1206 High Performance Low Pass 8W**

**LP1206A3500ASTR – SMD Termination**

**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: 3.5GHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- 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 freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

**DIMENSIONS (TOP VIEW)**

<table>
<thead>
<tr>
<th>mm (inches)</th>
<th>L</th>
<th>3.08±0.1 (0.121±0.004)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>1.60±0.1 (0.063±0.004)</td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>0.87±0.1 (0.034±0.004)</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>0.61±0.25 (0.024±0.010)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>0.35±0.15 (0.014±0.006)</td>
<td></td>
</tr>
</tbody>
</table>

**TERMINAL AND LAYOUT (TOP VIEW)**

**RECOMMENDED PAD LAYOUT**

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>LP</th>
<th>1206</th>
<th>A</th>
<th>3500</th>
<th>A</th>
<th>S</th>
<th>TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Size</td>
<td>Type</td>
<td>Frequency (MHz)</td>
<td>Sub-Type</td>
<td>Termination</td>
<td>Taped &amp; Reeled</td>
</tr>
</tbody>
</table>

---

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**Thick-Film RF/Microwave Filters**
1206 High Performance Low Pass 8W
LP1206A3500ASTR – SMD Termination

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 3.5GHz</th>
<th>R.Loss @ 3.5GHz</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A3500ASTR</td>
<td>0.7dB max.</td>
<td>-18dB</td>
<td>-30dB at 4.9GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-46dB at 7GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 10.5GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-15dB at 11GHz</td>
</tr>
</tbody>
</table>

**TYPICAL ELECTRICAL PERFORMANCE**
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: 3.6GHz
• 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 freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

HOW TO ORDER
LP 1206 A 3600 A S TR
Series Size Type Frequency (MHz) Sub-Type Termination Taped & Reeled

DIMENSIONS
(TOP VIEW)

TERMINAL AND LAYOUT (TOP VIEW)

RECOMMENDED PAD LAYOUT
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A3600ASTR – SMD Termination

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 3.6GHz</th>
<th>R.Loss @ 3.6GHz</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A3600ASTR</td>
<td>0.7dB max.</td>
<td>-25dB</td>
<td>-30dB at 5.04GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 7.2GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-25dB at 10.8GHz</td>
</tr>
</tbody>
</table>

TYPICAL ELECTRICAL PERFORMANCE
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A3800ASTR – SMD Termination

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: 3.8GHz
- 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

HOW TO ORDER

<table>
<thead>
<tr>
<th>LP</th>
<th>1206</th>
<th>A</th>
<th>3800</th>
<th>A</th>
<th>S</th>
<th>TR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Size</td>
<td>Type</td>
<td>Frequency (MHz)</td>
<td>Sub-Type</td>
<td>Termination</td>
<td>Taped &amp; Reeled</td>
</tr>
</tbody>
</table>

DIMENSIONS (TOP VIEW)

<table>
<thead>
<tr>
<th>L mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.08±0.1 (0.121±0.004)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.60±0.1 (0.063±0.004)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.87±0.1 (0.034±0.004)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.61±0.25 (0.024±0.010)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35±0.15 (0.014±0.006)</td>
</tr>
</tbody>
</table>

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.

RECOMMENDED PAD LAYOUT

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The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.avx.com/disclaimer by reference and should be reviewed in full before placing any order.
Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 8W
LP1206A3800ASTR – SMD Termination

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>P/N</th>
<th>I.Loss @ 3.6GHz</th>
<th>R.Loss @ 3.6GHz</th>
<th>Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LP1206A3800ASTR</td>
<td>0.8dB max.</td>
<td>-20dB</td>
<td>-35dB at 5.32GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-28dB at 7.6GHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>-33dB at 10GHz</td>
</tr>
</tbody>
</table>

TYPICAL ELECTRICAL PERFORMANCE