ITF TECHNOLOGY

The BP1206 Band Pass 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
- Band: 680-925 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

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

HOW TO ORDER

```
BP
1206
A
0802
A
S
TR
```

TERMINATION

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

RECOMMENDED PAD LAYOUT

```
IN (1)        GND (3)
Orientation Marking

OUT (2)       GND (4)
```

TERMINAL AND LAYOUT (TOP VIEW)

FINISHED PARTS

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

DIMENSIONS (TOP VIEW)

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

RECOMMENDED PAD LAYOUT

```
F  1.70±0.05
G  0.75±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>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency</td>
<td>802 MHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>I.loss 925-680MHz</td>
<td>-1.1dB max.</td>
</tr>
<tr>
<td>In-band return loss</td>
<td>-18dB</td>
</tr>
<tr>
<td>Rejection in [DC~400MHz]</td>
<td>-15dBc min.</td>
</tr>
<tr>
<td>Rejection in [2000~3000MHz]</td>
<td>-30dBc min</td>
</tr>
<tr>
<td>Rejection in [3000~4000MHz]</td>
<td>-18dBc min</td>
</tr>
<tr>
<td>Power handling (CW)</td>
<td>8 Watt</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40/+105 degC</td>
</tr>
<tr>
<td>Package</td>
<td>SMD, standard 1206 size</td>
</tr>
</tbody>
</table>

**TYPICAL ELECTRICAL PERFORMANCE**

![Typical Electrical Performance Graph](image-url)
Thin-Film RF/Microwave Filters
BP01206 Thin Film Band Pass Filter
BP1206A0879ASTR

ITF TECHNOLOGY
The BP1206 Band Pass 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
- Band: 800-960 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS
- Base Stations
- Mobile communications
- Satellite TV receivers
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER
BP 1206 A 0879 A S TR

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.

RECOMMENDED PAD LAYOUT

DIMENSIONS (TOP VIEW)

TERMINAL AND LAYOUT (TOP VIEW)
**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency</td>
<td>879 MHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>I. loss 800-960MHz</td>
<td>-1.2dB max.</td>
</tr>
<tr>
<td>In-band return loss</td>
<td>-18dB</td>
</tr>
<tr>
<td>Rejection in [DC~400MHz]</td>
<td>-22dBc min.</td>
</tr>
<tr>
<td>Rejection in [1600~3000MHz]</td>
<td>-28dBc min</td>
</tr>
<tr>
<td>Rejection in [3000~4000MHz]</td>
<td>-18dBc min</td>
</tr>
<tr>
<td>Power handling (CW)</td>
<td>8 Watt</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40/+105 degC</td>
</tr>
<tr>
<td>Package</td>
<td>SMD, standard 1206 size</td>
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</tbody>
</table>

**TYPICAL ELECTRICAL PERFORMANCE**

![Graph showing typical electrical performance](image-url)
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**ITF TECHNOLOGY**

The BP1206 Band Pass 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
- Band: 2380-3380MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant
- Power Handling: 8W CW

**APPLICATIONS**

- Base Stations.
- Radar Systems.
- Mobile communications
- Satellite TV receivers
- Vehicle location systems
- Wireless LAN's

**HOW TO ORDER**

BP 1206 A 2880 A S TR

**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.

**RECOMMENDED PAD LAYOUT**

**DIMENSIONS (TOP VIEW)**

<table>
<thead>
<tr>
<th>mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
</tr>
<tr>
<td>W</td>
</tr>
<tr>
<td>T</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
</tbody>
</table>

**TERMINAL AND LAYOUT (TOP VIEW)**
Thin-Film RF/Microwave Filters
BP01206 Thin Film Band Pass Filter
BP1206A2880ASTR

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency</td>
<td>2880 MHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>I. loss 2380-3380MHz</td>
<td>-1.5dB max.</td>
</tr>
<tr>
<td>In-band return loss</td>
<td>-15dB</td>
</tr>
<tr>
<td>Rejection in [460-1460] MHz</td>
<td>-30dBc min.</td>
</tr>
<tr>
<td>Rejection in [4300-5300] MHz</td>
<td>-30dBc min.</td>
</tr>
<tr>
<td>Power handling (CW)</td>
<td>8 Watt</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40/+105 degC</td>
</tr>
<tr>
<td>Package</td>
<td>SMD, standard 1206 size</td>
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</tbody>
</table>

TYPICAL ELECTRICAL PERFORMANCE
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**ITF TECHNOLOGY**

The BP1206 Band Pass 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
- Band: 5905-7450MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

**APPLICATIONS**

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

**HOW TO ORDER**

**DIMENSIONS (TOP VIEW)**

**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**
### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency</td>
<td>6670 MHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>I. loss 5905-7450MHz</td>
<td>-1.5dB max.</td>
</tr>
<tr>
<td>In-band return loss</td>
<td>-18dB</td>
</tr>
<tr>
<td>Rejection in [1000~3000MHz]</td>
<td>-30dBc min.</td>
</tr>
<tr>
<td>Rejection in [4900~5120MHz]</td>
<td>-20dBc min</td>
</tr>
<tr>
<td>Rejection in [10800~13000MHz]</td>
<td>-35dBc min</td>
</tr>
<tr>
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### TYPICAL ELECTRICAL PERFORMANCE

![Graph of Typical Electrical Performance](image)