

Thin-Film RF/Microwave Filters

BP1206 Thin Film Band Pass Filter

BP1206A27G9ANTR



ITF TECHNOLOGY

The ITF LGA 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.

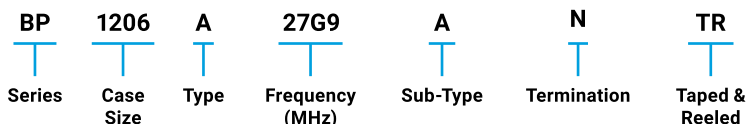
FEATURES

- Small size: 1206
- Band: 27.5 – 28.35 GHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ 85°C
- Low profile
- RoHS compliant

APPLICATIONS

- 5G mmWave applications
- Base Stations
- Mobile communications
- Factory and Process automation
- Autonomous driving, in-car infotainment
- AR/VR, Multi- broadcasting
- Smart home

HOW TO ORDER



FINAL QUALITY INSPECTION

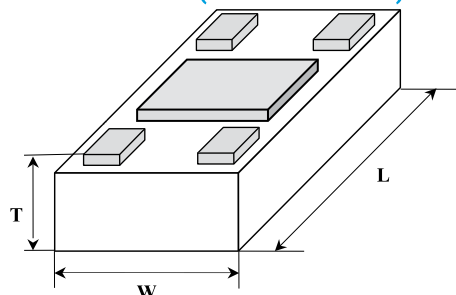
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

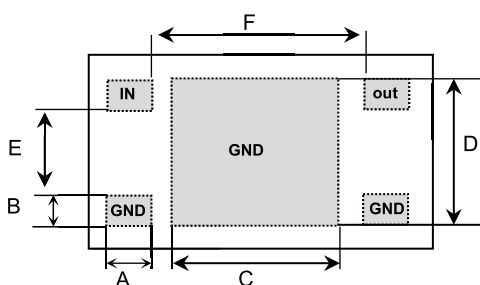
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

DIMENSIONS (BOTTOM VIEW)

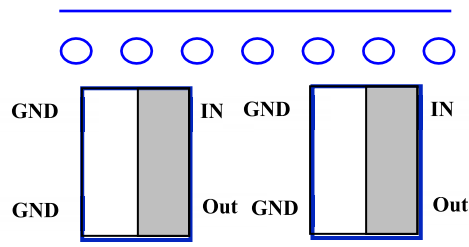


| mm (inches) | | B | 0.21±0.1 |
|-------------|----------|---|-----------|
| L | 3.1±0.1 | C | 1.92±0.1 |
| W | 1.60±0.1 | D | 1.36±0.1 |
| T | 0.45±0.1 | E | 0.945±0.1 |
| A | 0.32±0.1 | F | 2.225±0.1 |

TERMINALS (TOP VIEW)



ORIENTATION IN TAPE ((TOP VIEW)



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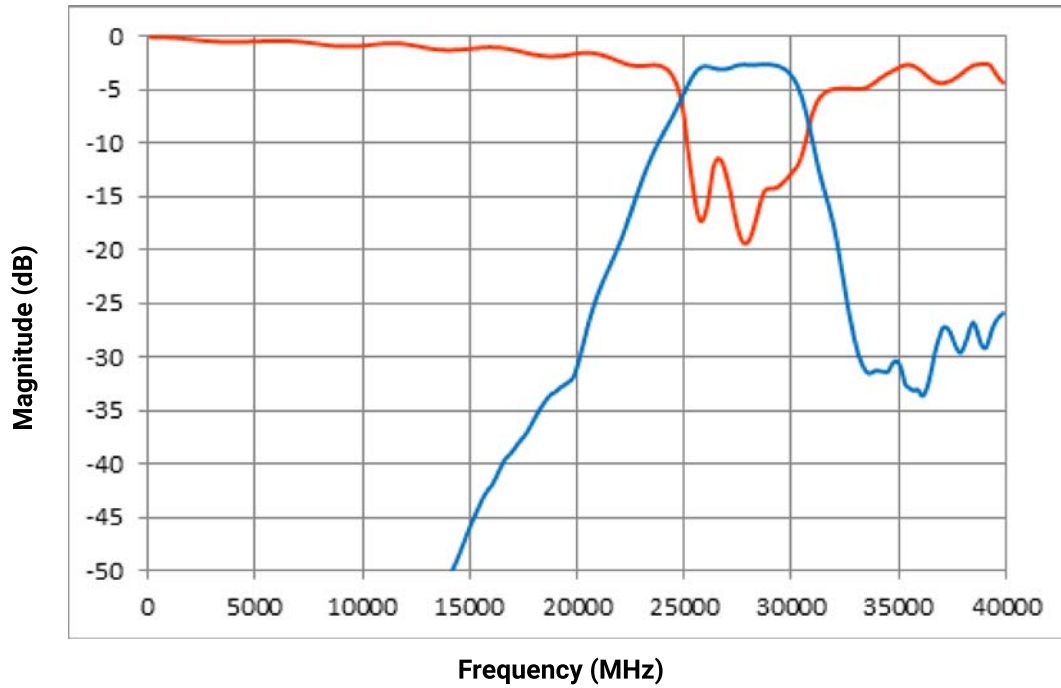
BP1206A27G9ANTR



ELECTRICAL CHARACTERISTICS

| Description | Value |
|-----------------------------|-------------------------|
| Center frequency | 27.925 GHz |
| Impedance | 50 ohm |
| I. loss 27.5- 28.35 GHz | -2.5 dB |
| In-band return loss | -12 dB |
| Rejection in DC-20 GHz | -30 dB |
| Rejection in [35-40] GHz | -25 dB |
| Power handling (CW) | 8 Watt |
| Operating temperature range | -40/+85 °C |
| Package | LGA, standard 1206 size |

TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

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BP1206A28G0ANTR



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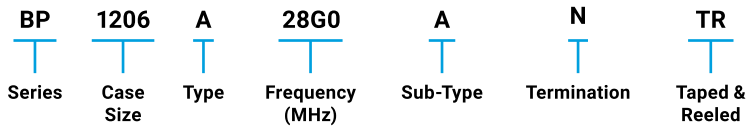
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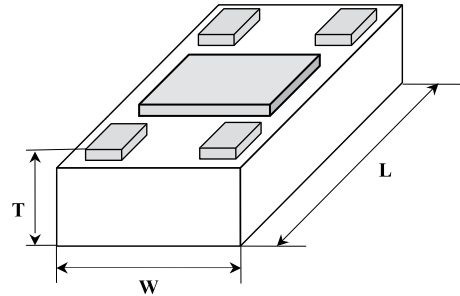
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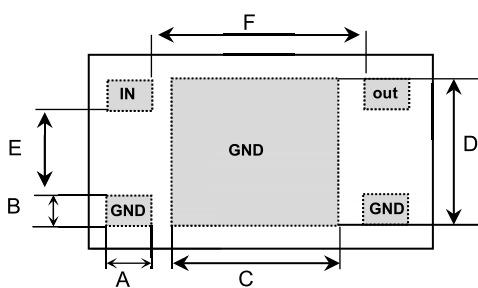


mm (inches)

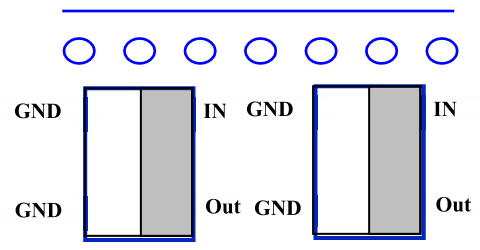
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