

Thin-Film RF/Microwave Filters

HP1206 High Performance High Pass Filter

General Information



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: 1000 & 1100MHz
- Sharp attenuation slope
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C - +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 5W

APPLICATIONS

- Defense
- 5G / 6G
- Handheld radio
- Mobile communications
- Base station

HOW TO ORDER



QUALITY INSPECTION

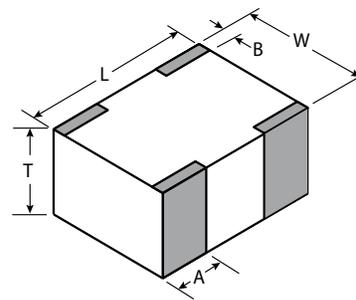
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- 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.

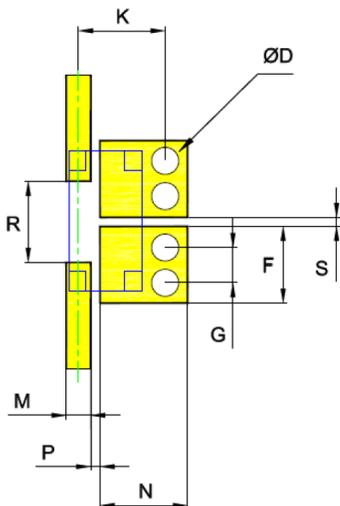
DIMENSIONS



mm (inches)

L	3.08±0.1 (0.121±0.004)
W	1.60±0.1 (0.063±0.004)
T	0.87±0.1 (0.034±0.004)
A	0.61±0.25 (0.028±0.010)
B	0.35±0.15 (0.014±0.006)

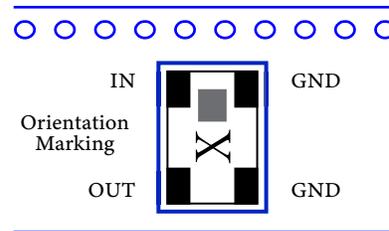
RECOMMENDED PCB PAD LAYOUT



mm (inches)

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	0.60±0.10

ORIENTATION IN TAPE (TOP VIEW)



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HP1206A1000ASTR



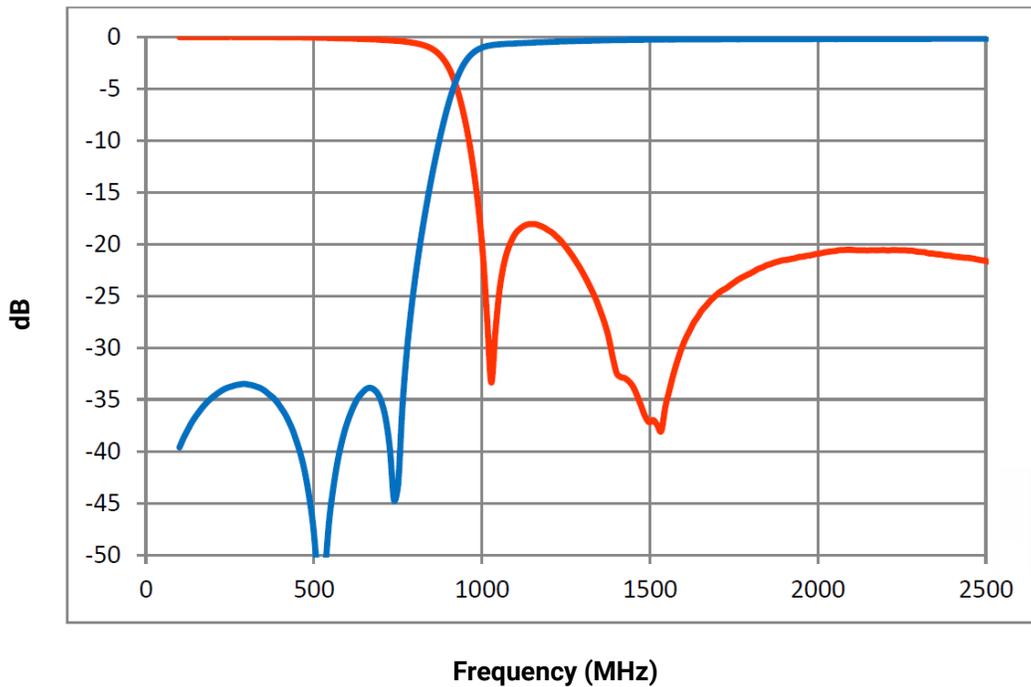
ELECTRICAL CHARACTERISTICS

Part Number	Frequency	Insertion Loss @ 1000 MHz	Return Loss @ 1000 - 2500 MHz	Rejection @ 750MHz	Power Handling	Impedance	Operating Temp.
	MHz	dB	dB	dB	W	Ohm	°C
HP1206A1000ASTR	1000	-1.2	-15	-35	5	50	-40 - +85

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TYPICAL ELECTRICAL PERFORMANCE



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HP1206A1100ASTR



ELECTRICAL CHARACTERISTICS

Part Number	Frequency	Insertion Loss @ 1000 MHz	Return Loss @ 1000 - 2500 MHz	Rejection @ 750MHz	Power Handling	Impedance	Operating Temp.
	MHz	dB	dB	dB	W	Ohm	°C
HP1206A1100ASTR	1100	-1.0	-15	-35	5	50	-40 - +85

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TYPICAL ELECTRICAL PERFORMANCE

