

Thin-Film RF/Microwave Filters

BP1206 Band Pass Filter SMD 8W

General Information



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
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- 5G / 6G / UWB Applications
- Base Stations
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER

BP	1206	A	XXXX	A	S	TR
Series	Case Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

FINAL QUALITY INSPECTION

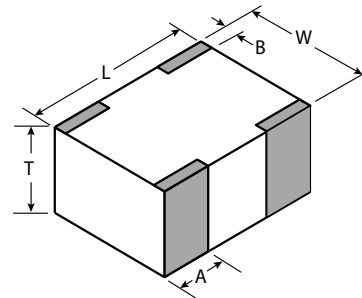
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- 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)



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)

ELECTRICAL SPECIFICATIONS TABLE

Part Number	Band [MHz]	Insertion Loss [dB]	Low Band Rejection [dB]	High Band Rejection [dB]	
BP1206A0802ASTR	680 – 925	-1.1	-15 @ DC - 400 MHz	-30 @ 2000 – 3000 MHz	-18 @ 3000 - 4000
BP1206A0879ASTR	800 - 960	-1.2	-22 @ DC - 400 MHz	-28 @ 1600 – 3000 MHz	-18 @ 3000 - 4000
BP1206A1300ASTR	1200 – 1400	-6.5	-25 @ DC – 500	-20 @ 2400- 3600 MHz	-30 @ 3600 - 5000 MHz
BP1206A1301ASTR	1000 – 1600	-1.8	-35 @ DC – 680	-35 @ 3200 – 4800 MHz	-
BP1206A1400ASTR	1100 - 1700	-1.6	-30 @ DC – 700	-35 @ 3400 – 5100 MHz	-
BP1206A2700ASTR	2600 - 2800	-1.9	- 27 @ DC-2000	-40 @ 4000 - 6000 MHz	-27 @ 6001 -8100
BP1206A2800ASTR	2700 - 2900	-1.9	- 27 @ DC-2000	-40 @ 4000 - 6000 MHz	-27 @ 6001 -8400
BP1206A2880ASTR	2380 - 3380	-1.5	- 30 @ 460 - 1460	-30 @ 4300 - 5300 MHz	-
BP1206A2900ASTR	2800 - 3000	-1.8	- 27 @ DC - 2000	-38 @ 4000 - 6000 MHz	-25 @ 6001 -8700
BP1206A4350ASTR	4000 – 4700	-1.7	- 35 @ DC – 3000	-30 @ 7000 - 10000 MHz	-
BP1206A6670ASTR	5905 - 7450	-1.5	-30 @ 1000 - 3000	-20 @ 4900 - 5120 MHz	-35 @ 10800 - 13000

Click on part number to see full specifications

Custom Band Pass Filters are Available Per Request

Thin-Film RF/Microwave Filters

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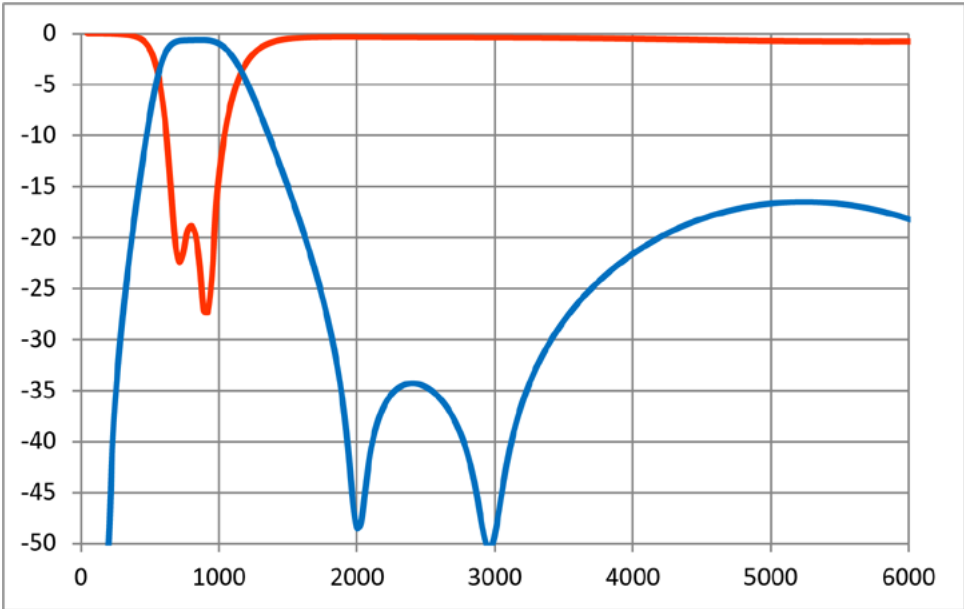
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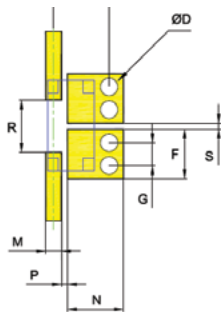
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	802 MHz
Impedance	50 ohm
I.loss 680-925MHz	-1.1dB max.
In-band return loss	-18dB
Rejection in [DC~400MHz]	-15dBc min.
Rejection in [2000~3000MHz]	-30dBc min
Rejection in [3000~4000MHz]	-18dBc min
Power handling (CW)	8 Watt
Operating temperature range	-40/+105 °C
Package	SMD, standard 1206 size

[Click here to return to main table](#)



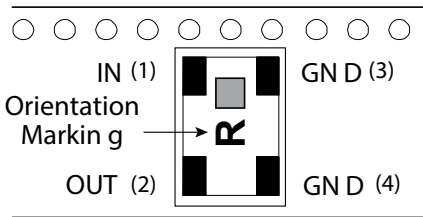
TERMINAL AND LAYOUT (TOP VIEW)



mm	
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

*The recommended distance to the ground plane is 0.254mm (0.01")
 ** PCB : Taconic Orcer RF-35P

TERMINAL AND LAYOUT (TOP VIEW)



EVB P/N: 544-6812

Thin-Film RF/Microwave Filters

BP1206 Band Pass Filter SMD 8W

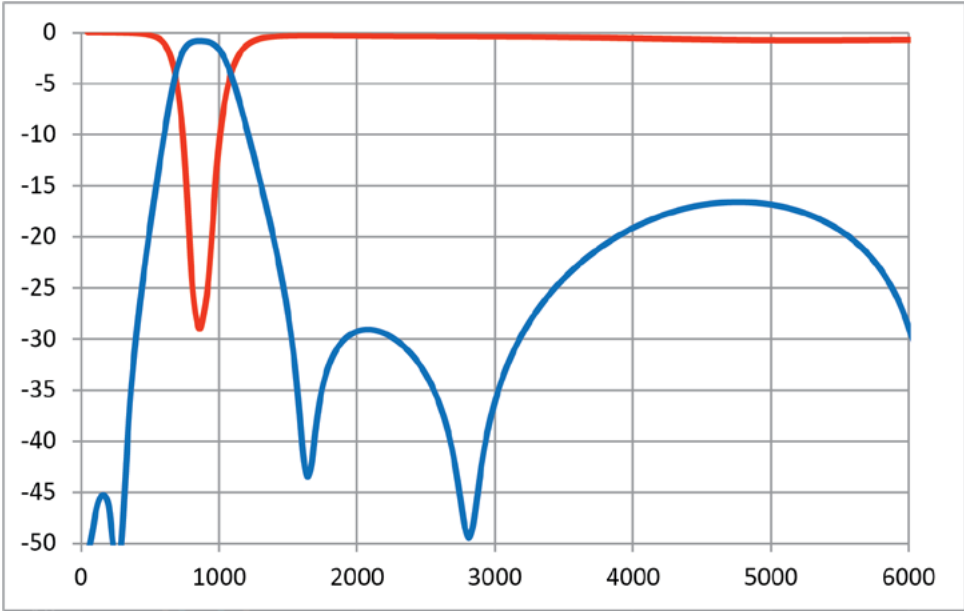
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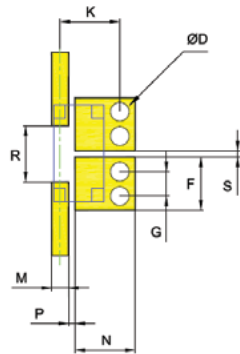
TYPICAL ELECTRICAL PERFORMANCE

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

[Click here to return to main table](#)

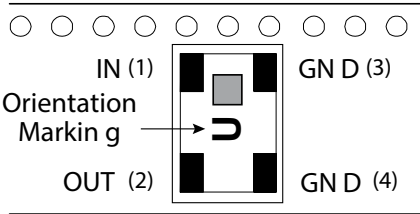


TERMINAL AND LAYOUT (TOP VIEW)



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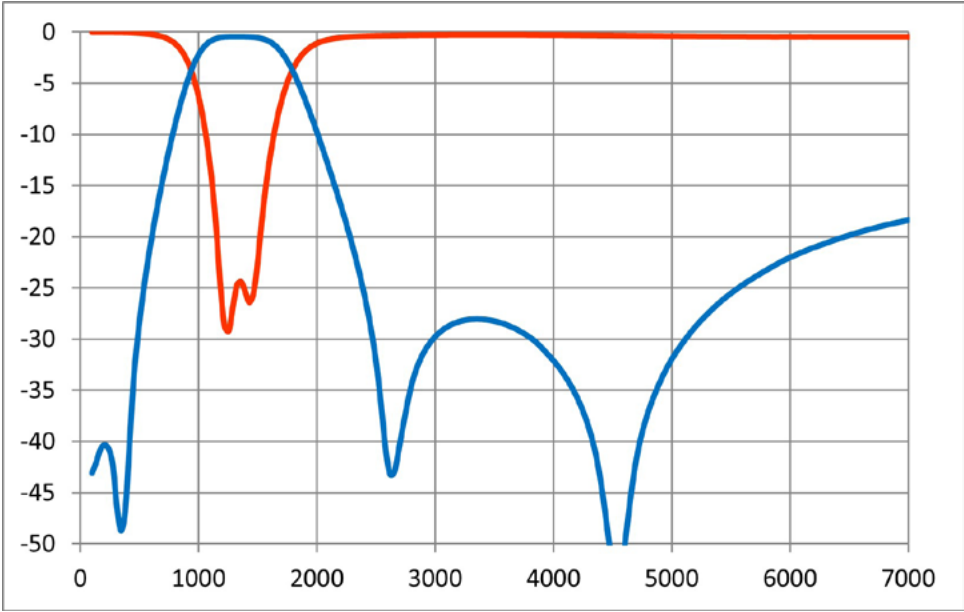
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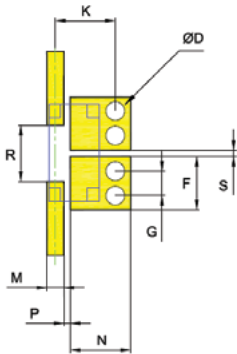
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	1300 MHz
Impedance	50 ohm
I. loss 1200 – 1400 MHz	-0.65dB
In-band return loss	-20dB
rejection in [DC- 500]	-25 dB
rejection in 2400 - 3600	-20 dB
rejection in 3600 - 5000	-30 dB
power handling (CW)	8 Watt
operating temperature range	-40/+105 degC
package	SMD, standard 1206 size

[Click here to return to main table](#)

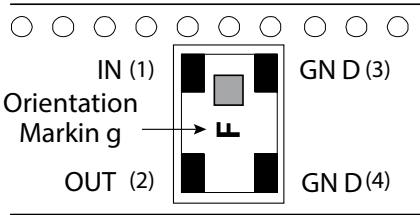


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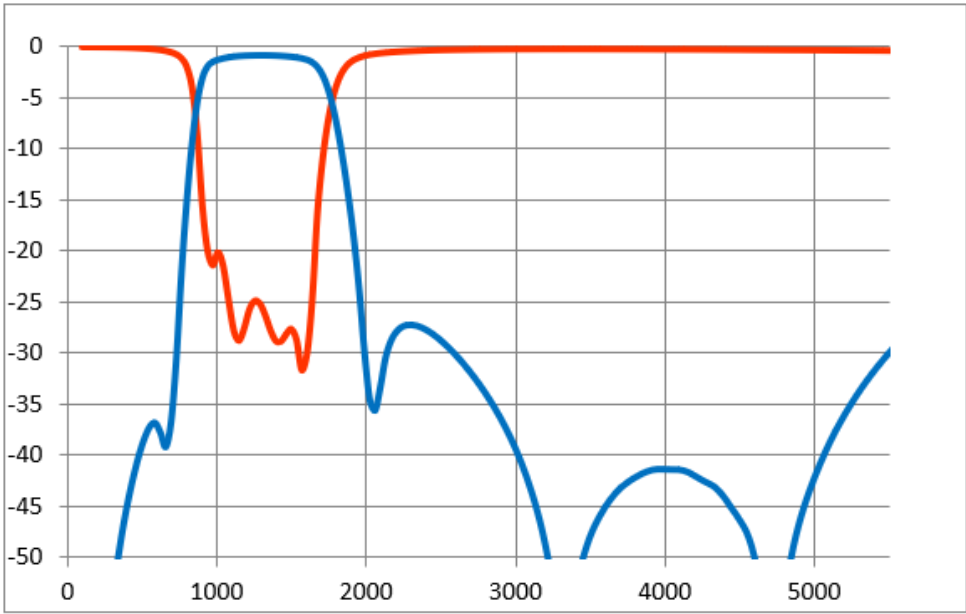
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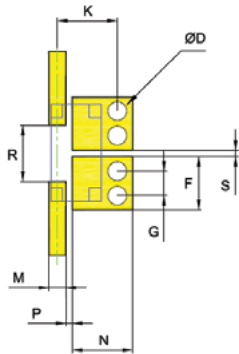
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	1301 MHz
Impedance	50 ohm
I. loss 1000 – 1600 MHz	-1.8 dB
In-band return loss	-15 dB
Rejection @ 200-680 MHz	-35 dB
Rejection @ 3200 – 4800 MHz	-35 dB
Power handling (CW)	8 Watt
Operating temperature range	-40/+85 degC
Package	SMD, standard 1206 size

[Click here to return to main table](#)

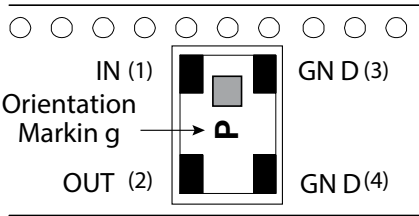


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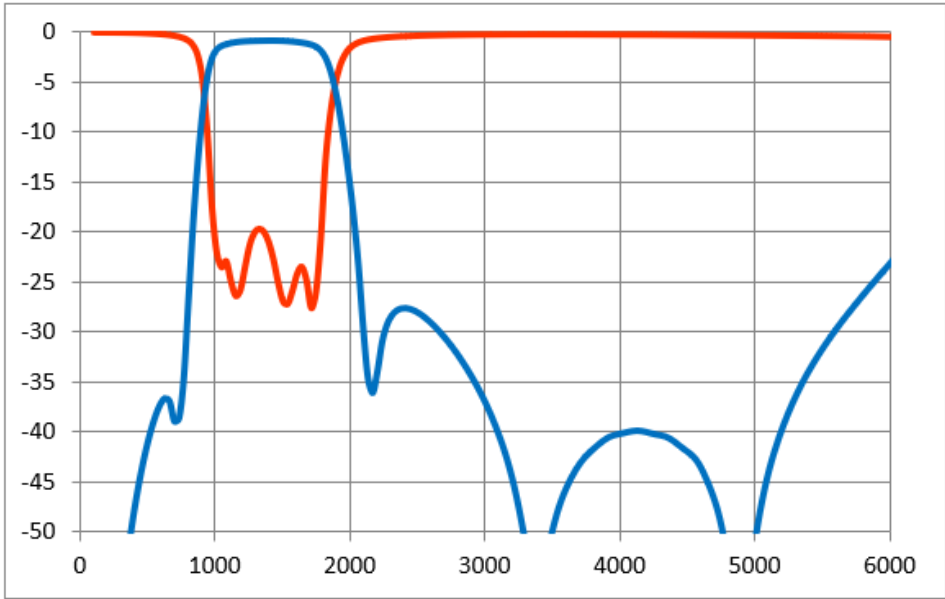
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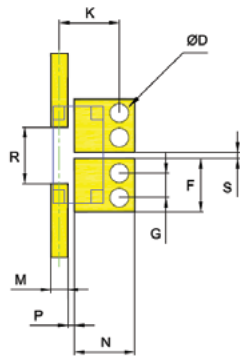
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	1400 MHz
Impedance	50 ohm
I. loss 1100 – 1700 MHz	-1.6 dB
In-band return loss	-15 dB
Rejection @ 200-700 MHz	-30 dB
Rejection @ 3400 – 5100 MHz	-35 dB
Power handling (CW)	8 Watt
Operating temperature range	-40/+85 degC
Package	SMD, standard 1206 size

[Click here to return to main table](#)



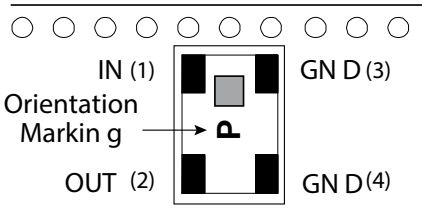
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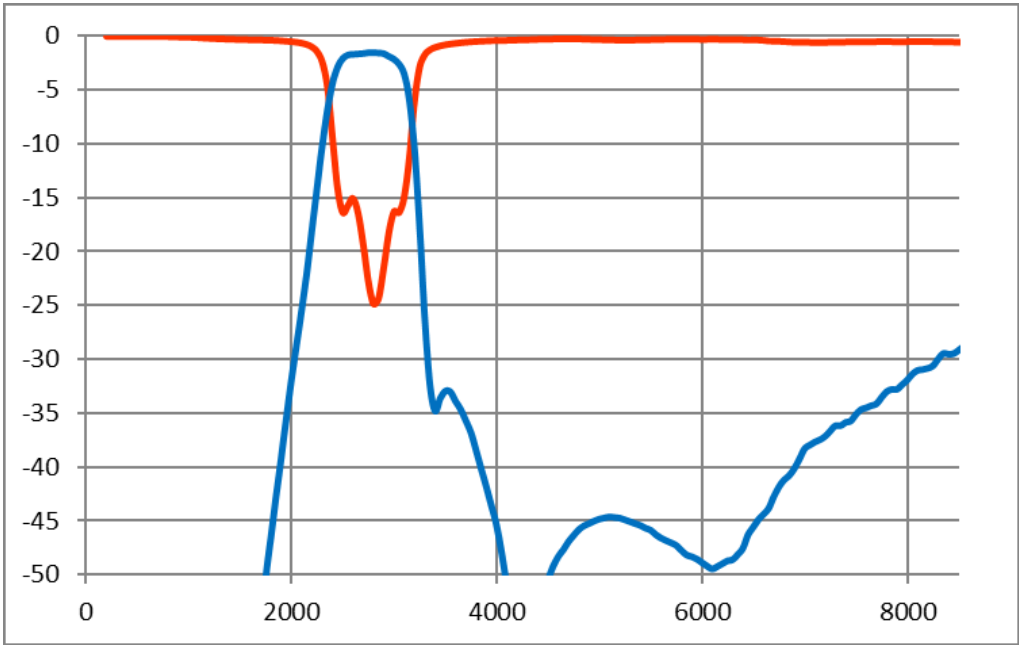
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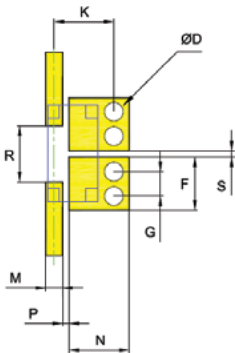
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	2700 MHz
Impedance	50 ohm
I. loss 2600-2800MHz	-1.9 dB
In-band Return Loss	-12 dB
Rejection @ 2000 MHz	-27 dB
Rejection @ 4000-6000 MHz	-40dB
Rejection @ 6001-8100 MHz	-27dB
Power Handling (CW)	8 Watt
Operating Temperature Range	-40/+85°C
Package	SMD, standard 1206 size

[Click here to return to main table](#)



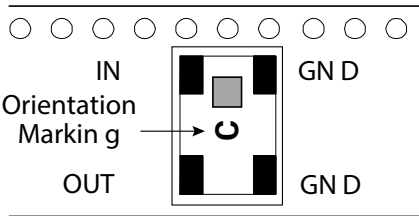
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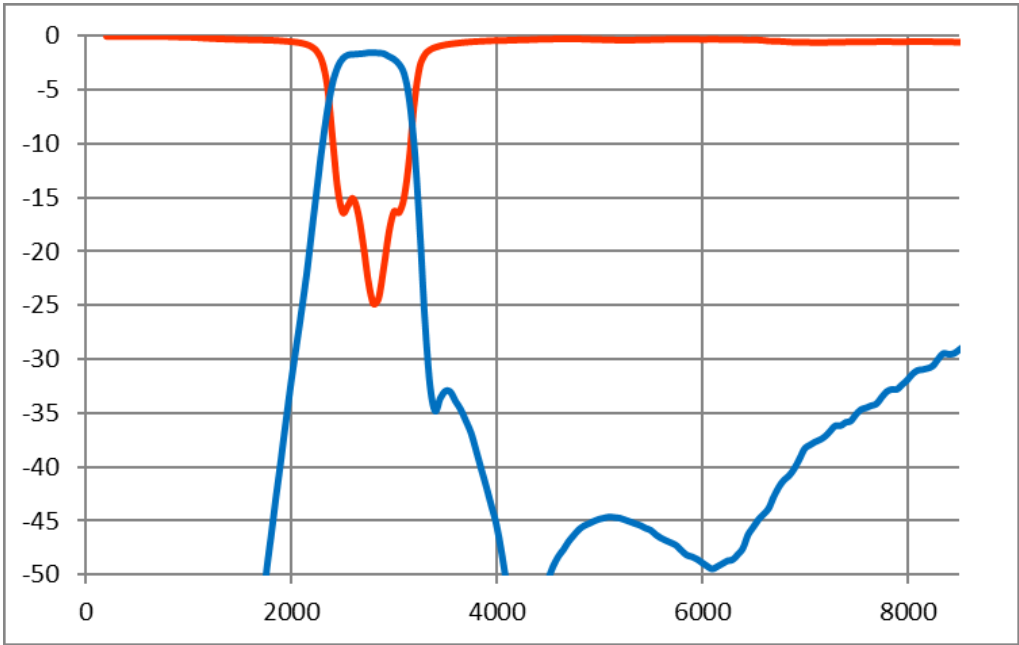
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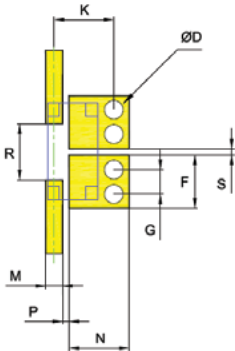
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	2800 MHz
Impedance	50 ohm
I. loss 2700 - 2900 MHz	-1.9 dB
In band Return Loss	-12 dB
Rejection @ 2000 MHz	- 27 dB
Rejection @ 4000 - 6000 MHz	-40 dB
Rejection @ 6001 - 8400 MHz	-27 dB
Power handling (CW)	8 Watt
Operating temperature range	-40/+85°C
Package	SMD, standard 1206 size

[Click here to return to main table](#)

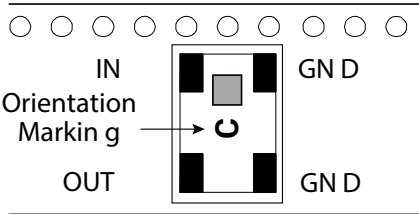


TERMINAL AND LAYOUT (TOP VIEW)



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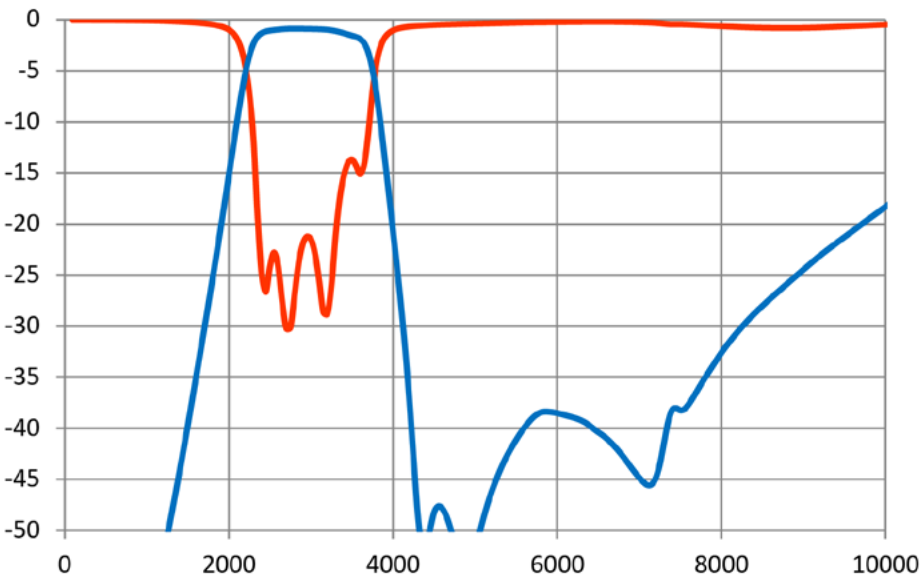
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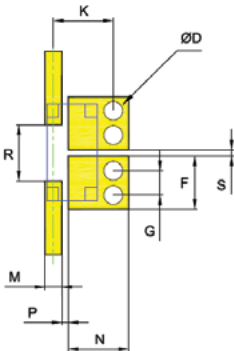
TYPICAL ELECTRICAL PERFORMANCE

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

[Click here to return to main table](#)



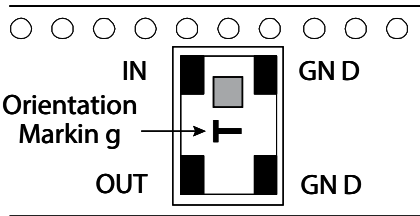
TERMINAL AND LAYOUT (TOP VIEW)



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TERMINAL AND LAYOUT (TOP VIEW)



EVB P/N: 544-6812

Thin-Film RF/Microwave Filters

BP1206 Band Pass Filter SMD 8W

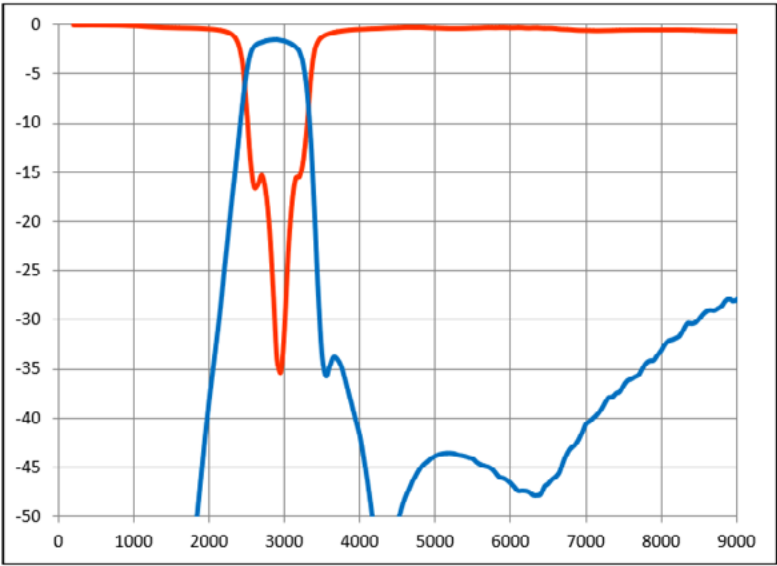
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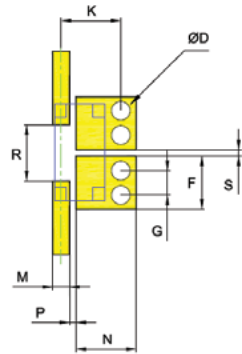
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	2900 MHz
Impedance	50 ohm
I. loss 2800 - 3000 MHz	-1.8 dB
In Band Return Loss	-12 dB
Rejection @ 2000 MHz	-27 dB
Rejection @ 4000 - 6000 MHz	-38 dB
Rejection @ 6001 - 8700 MHz	-25 dB
Power Handling (CW)	8 Watt
Operating Temperature Range	-40/+85°C
Package	SMD, standard 1206 size

[Click here to return to main table](#)



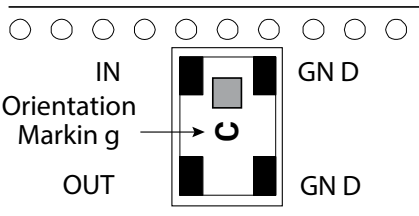
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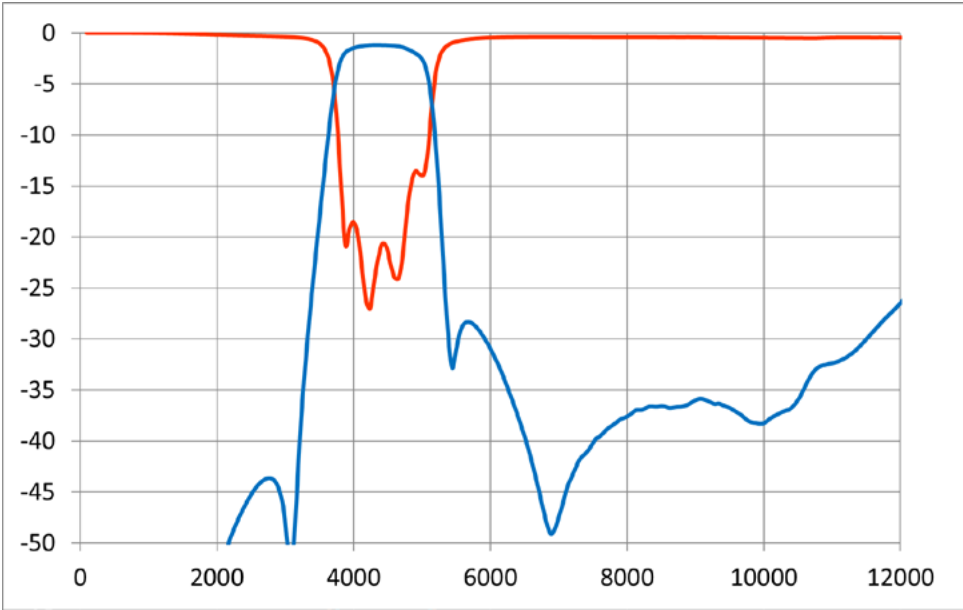
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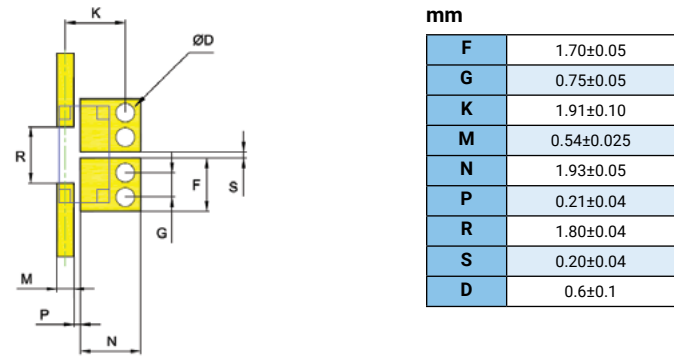
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	4350 MHz
Impedance	50 ohm
I. loss 4000 -4700 MHz	-1.7 dB
In-band return loss	-15 dB
Rejection @ DC - 3000 MHz	-35 dB
Rejection @ 7000 - 10000 MHz	-30 dB
Power handling (CW)	8 Watt
Operating temperature range	-40/+85 degC
Package	SMD, standard 1206 size
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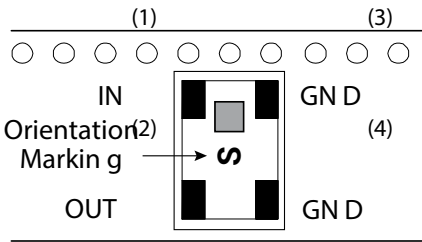
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TERMINAL AND LAYOUT (TOP VIEW)



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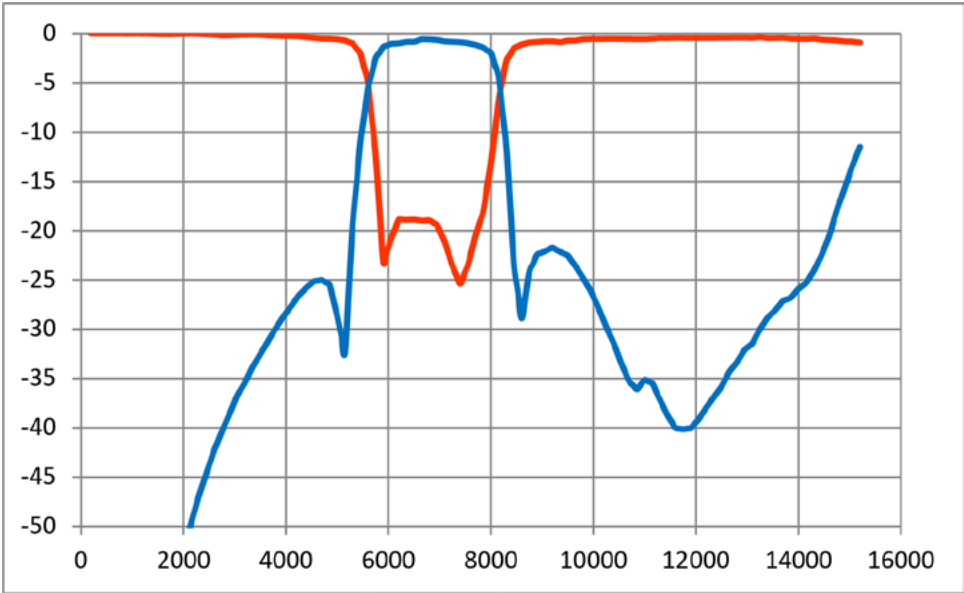
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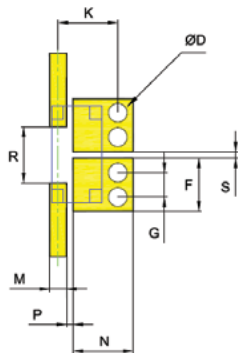
TYPICAL ELECTRICAL PERFORMANCE

Description	Value
Center frequency	6670 MHz
Impedance	50 ohm
I. loss 5905-7450MHz	-1.5dB max.
In-band return loss	-18dB
Rejection in [1000~3000MHz]	-30dBc min.
Rejection in [4900~5120MHz]	-20dBc min
Rejection in [10800~13000MHz]	-35dBc min
Power handling (CW)	8 Watt
Operating temperature range	-40/+105 degC
Package	SMD, standard 1206 size

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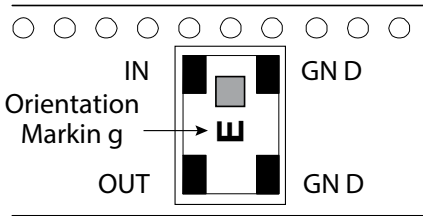


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