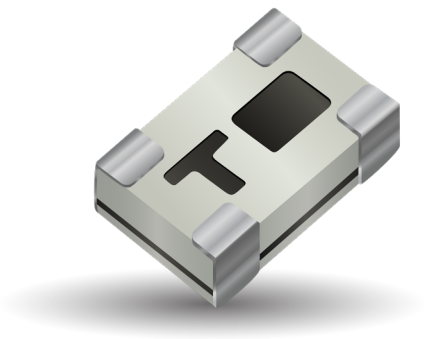
High Performance Band Pass Filters

BP0805 Band Pass Filter SMD 5W

Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

General Information



ITF TECHNOLOGY

The BP0805 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: 0805
- Characteristic impedance: 50Ω
- Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

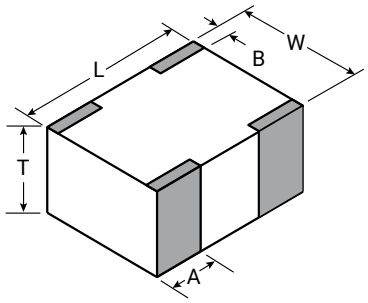
APPLICATIONS

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

HOW TO ORDER

BP	0805	A	XXXX	A	S	TR
Series	Case Size	Type	Frequency (MHz)	Sub-Type	Termination W = LGA Sn90, Pb10 **S = LGA Sn100 **RoHS Compliant	Taped & Reeled

DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

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.

ELECTRICAL SPECIFICATIONS TABLE

Part Number	Frequency	I.L	R.L	Rejection 1	Rejection 2	Rejection 3
	(MHz)	dB	dB			
BP0805A1308ASTR	1220-1420	-2	-12	-16 dB @ DC-945 MHz	-30 dB @ 920-3105 MHz	---
BP0805A1350ASTR	1300-1400	-1.2	-15	-15 dB @ 945 MHz	-27 dB @ 2600-3000 MHz	-20 dB @ 3000-7200 MHz
BP0805A1457ASTR	1447 -1467	-1.5	-15	-20 dB @ DC-960 MHz	-22 dB @ 2400-6000 MHz	---
BP0805A1481ASTR	1427-1536	-2	-20	-26 dB @ DC-800 MHz	-26 dB @ 2500-4500 MHz	---
BP0805A1795ASTR	1785 - 1805	-1.8	-15	-26 dB @ DC-1000 MHz	-24 dB @ 2300-6000 MHz	---
BP0805A2065ASTR	1930-2200	-1.3	-20	-20 dB @ DC-1000 MHz	-28 dB @ 3400-6000 MHz	---
BP0805A2160ASTR	1960-2360	-1.2	-18	-30 dB @ DC-900 MHz	-30 dB @ 3800-6700 MHz	---
BP0805A3450ASTR	3300-3600	-1.6	-12	-26 dB @ DC-2000 MHz	-28 dB @ 5000-7000 MHz	---
BP0805A3500ASTR	3400-3600	-1.3	-15	-30 dB @ DC-2000 MHz	-26 dB @ 5000-7800 MHz	-15 dB @ 7801-9000 MHz
BP0805A3600ASTR	3500-3700	-1.3	-15	-30 dB @ DC-2000 MHz	-25 dB @ 5300-8000 MHz	---
BP0805A3602ASTR	3450-3750	-1.5	-12	-30 dB @ DC-2000 MHz	-25 dB @ 5200-8000 MHz	---
BP0805A3700ASTR	3600-3800	-1.3	-15	-30 dB @ DC-2000 MHz	-26 dB @ 5300-8300 MHz	---
BP0805A3840ASTR	3650-4030	-1.9	-18	-36 dB @ DC-2900 MHz	-25 dB @ 5500-13000 MHz	---
BP0805A3900ASTR	3600-4200	-2.5	-18	-25 dB @ DC-3000 MHz	-25 dB @ 5100-7000 MHz	-30 dB @ 7000-10000 MHz
BP0805A4050ASTR	3700-4400	-1.8	-18	-30 dB @ DC-2000 MHz	-30 dB @ 6500-10500 MHz	---
BP0805B4050ASTR	4000-4100	-1.3	-18	-40 dB @ DC-2000 MHz	-25 dB @ 6000-8000 MHz	-18 dB @ 10000-12000 MHz
BP0805A4320ASTR	4120-4520	-1.2	-15	-40 dB @ DC-2100 MHz	-25 dB @ 5800-9300 MHz	---
BP0805A5805ASTR	5795 - 5815	-2	-15	-32 dB @ DC-4000 MHz	-18 dB @ 8000-11000 MHz	-20 dB @ 11000-14000 MHz
BP0805A7250ASTR	6625-7875	-1.5	-12	-30 dB @ DC-5400 MHz	-26 dB @ 10000-15000 MHz	---

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Thin-Film RF/Microwave Filters

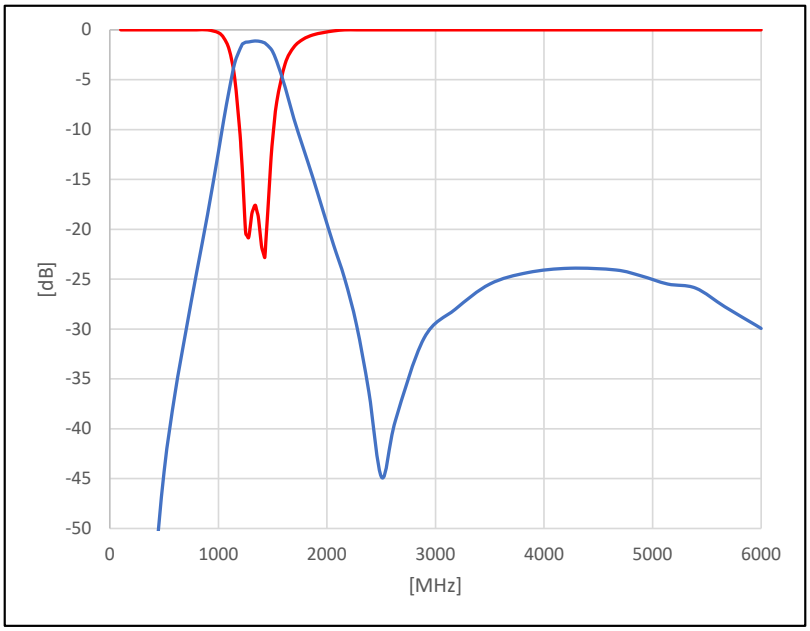
BP0805 Band Pass Filter SMD 5W

BP0805A1308ASTR

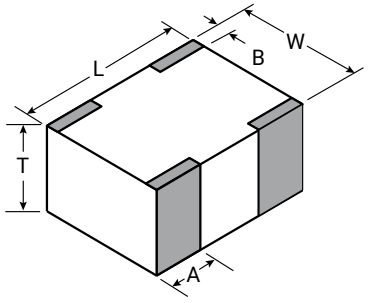
ELECTRICAL CHARACTERISTICS

BP0805A1308ASTR		
Description	**Value**	**Notes**
Fc	1308 MHz	
Insertion Loss @ 1220-1420 MHz	-2 dB	Max.
Return Loss @ 1220-1420 MHz	-12 dB	
Rejection @ DC-945 MHz	-16 dB	
Rejection @ 2920-3105 MHz	-30 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

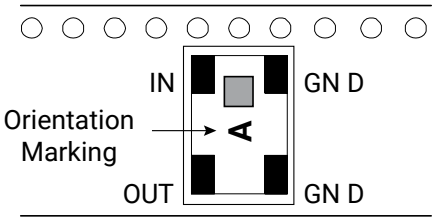


DIMENSIONS (TOP VIEW)

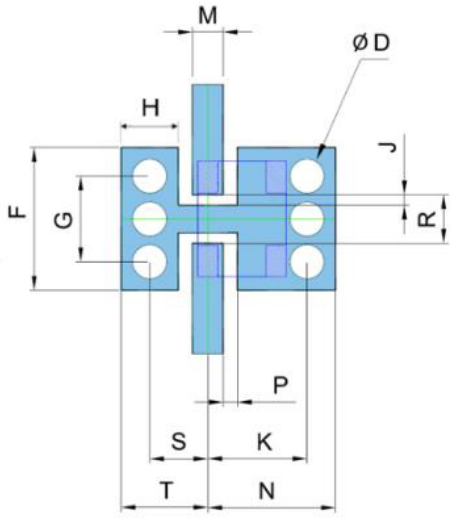


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")
** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

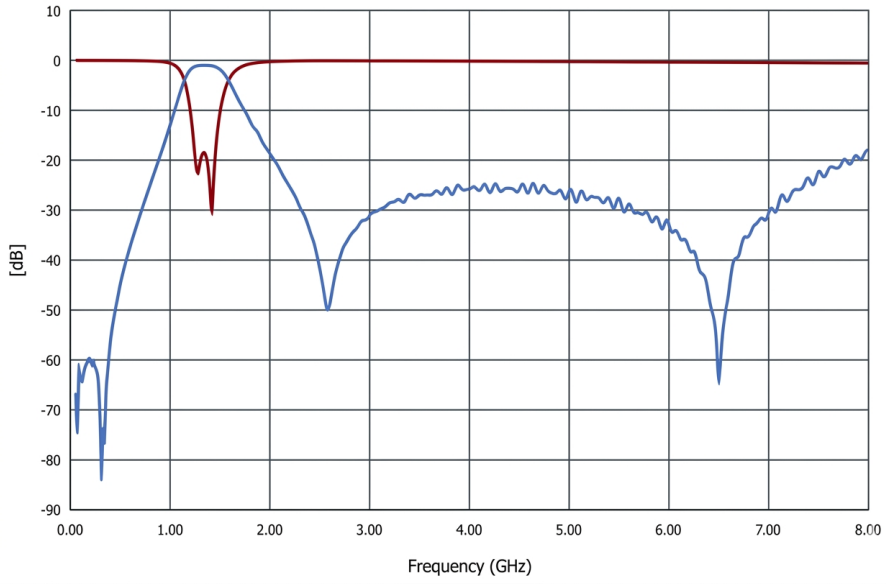
BP0805 Band Pass Filter SMD 5W

BP0805A1350ASTR

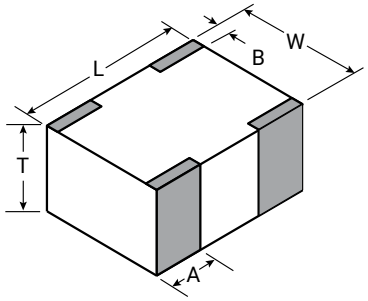
ELECTRICAL CHARACTERISTICS

BP0805A1350ASTR		
Description	**Value**	**Notes**
Fc	1350 MHz	
Insertion Loss @ 1300-1400 MHz	-1.2 dB	Max.
Return Loss @ 1300-1400 MHz	-15 dB	
Rejection @ 945 MHz	-15 dB	
Rejection @ 2600-3000 MHz	-27 dB	
Rejection @ 3000-7200 MHz	-20 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

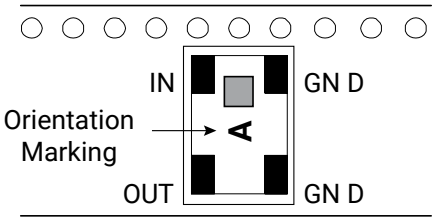


DIMENSIONS (TOP VIEW)

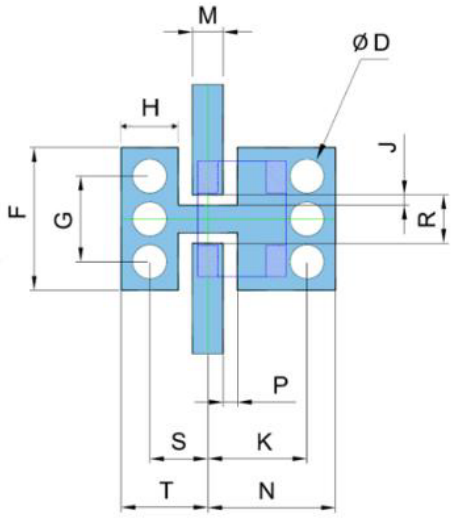


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
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Thin-Film RF/Microwave Filters

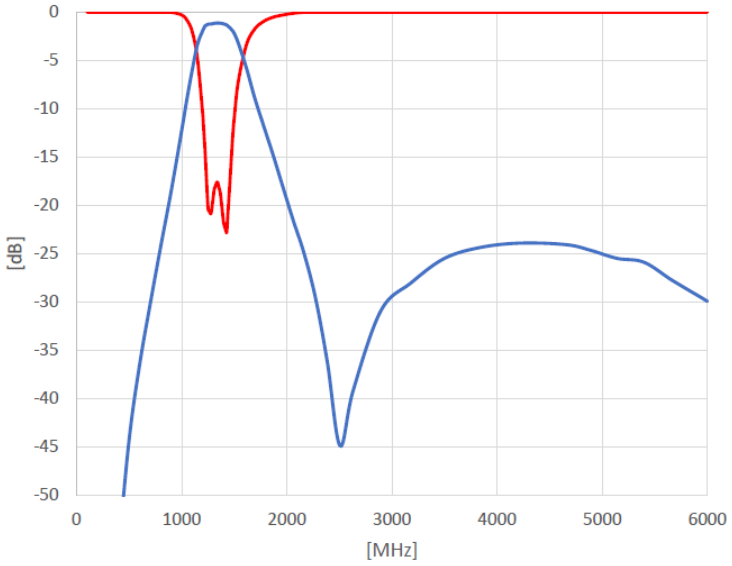
BP0805 Band Pass Filter SMD 5W

BP0805A1457ASTR

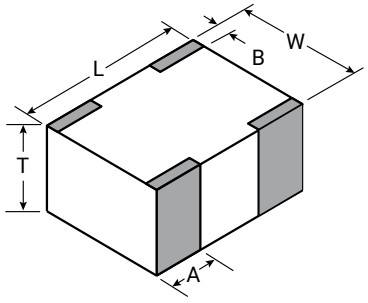
ELECTRICAL CHARACTERISTICS

BP0805A1457ASTR		
Description	**Value**	**Notes**
Fc	1457 MHz	
Insertion Loss @ 1447-1467 MHz	-1.5 dB	Max.
Return Loss @ 1447-1467 MHz	-15 dB	
Rejection @ DC-960 MHz	-20 dB	
Rejection @ 2400-6000 MHz	-22 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

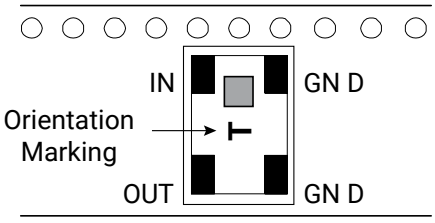


DIMENSIONS (TOP VIEW)

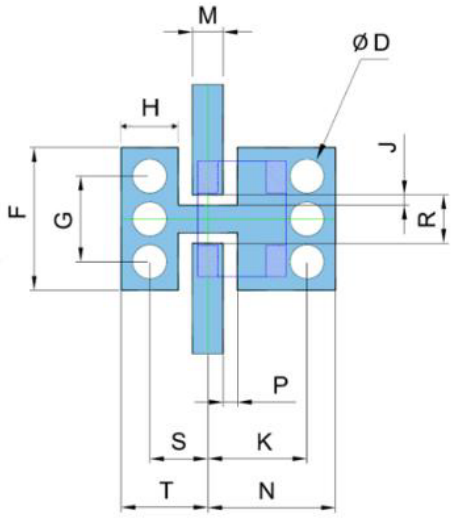


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
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Thin-Film RF/Microwave Filters

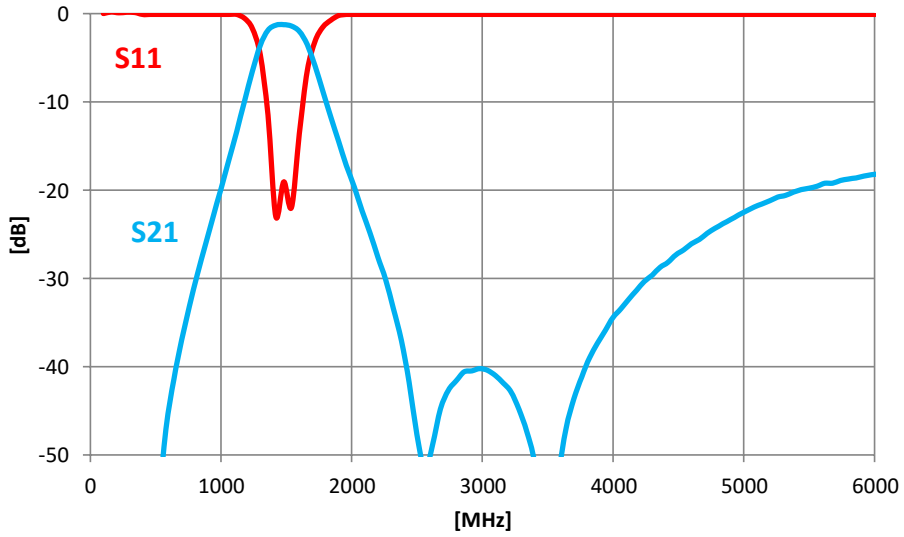
BP0805 Band Pass Filter SMD 5W

BP0805A1481ASTR

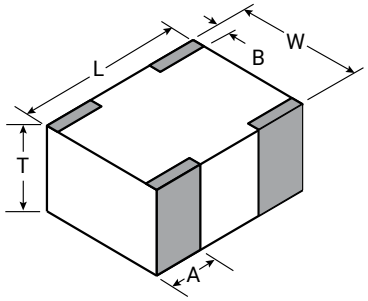
ELECTRICAL CHARACTERISTICS

BP0805A1481ASTR		
Description	**Value**	**Notes**
Fc	1481 MHz	
Insertion Loss @ 1427-1536 MHz	-2 dB	Max.
Return Loss @ 1427-1536 MHz	-20 dB	
Rejection @ DC-800 MHz	-26 dB	
Rejection @ 2500-4500 MHz	-26 dBc	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

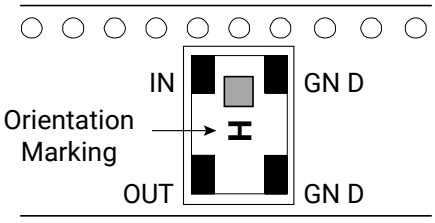


DIMENSIONS (TOP VIEW)

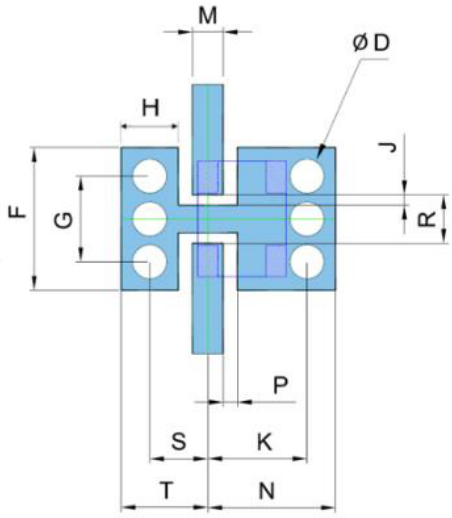


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
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TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
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S	1.02±0.05 (0.040±0.002)
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G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
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Thin-Film RF/Microwave Filters

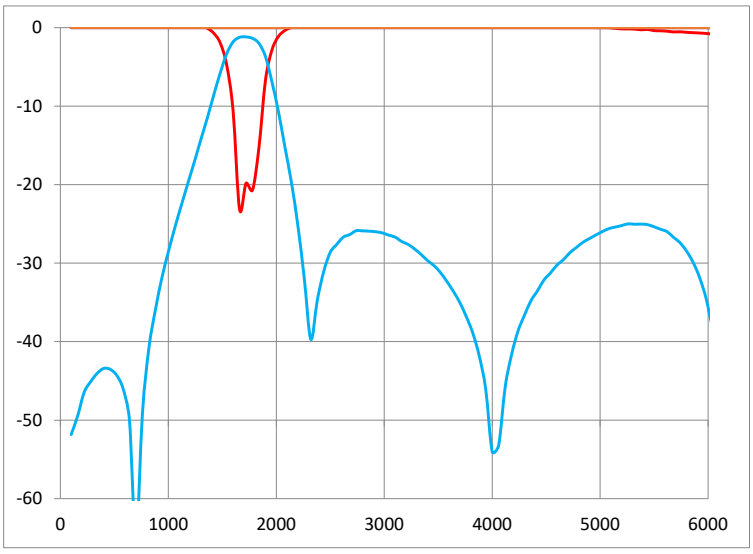
BP0805 Band Pass Filter SMD 5W

BP0805A1795ASTR

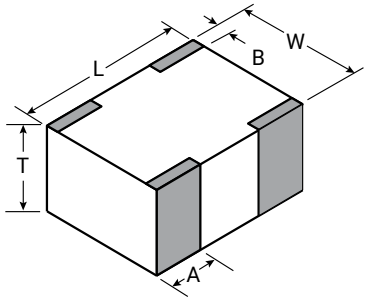
ELECTRICAL CHARACTERISTICS

BP0805A1795ASTR		
Description	**Value**	**Notes**
Fc	1795 MHz	
Insertion Loss @ 1785-1805 MHz	-1.8 dB	Max.
Return Loss @ 1785-1805 MHz	-15 dB	
Rejection @ DC-1000 MHz	-26 dB	
Rejection @ 2300-6000 MHz	-24 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

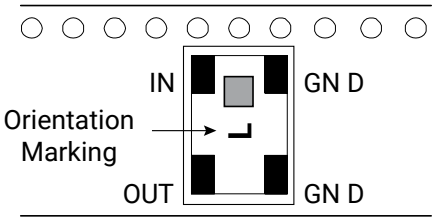


DIMENSIONS (TOP VIEW)

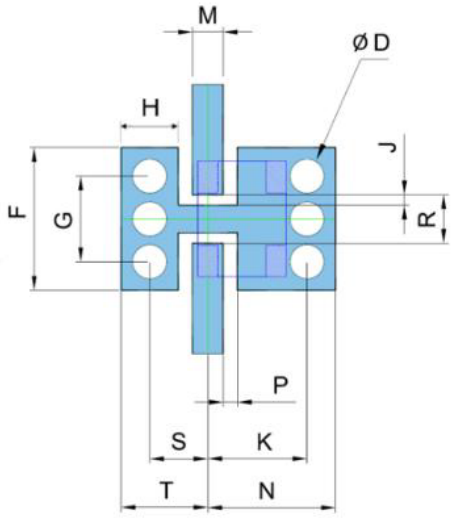


mm (inches)	
L	2.03±0.1 (0.080±0.004)
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TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



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Thin-Film RF/Microwave Filters

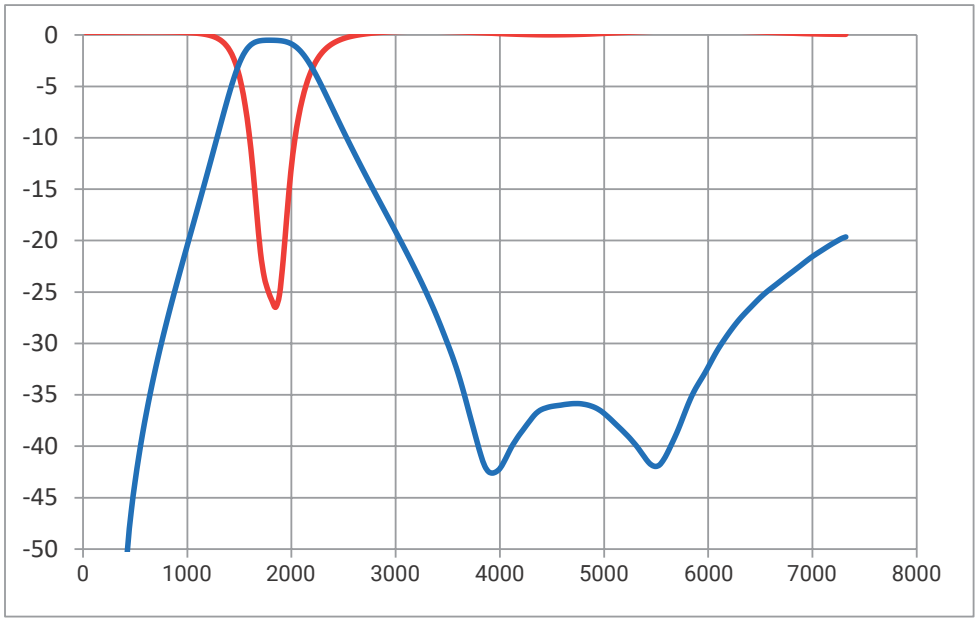
BP0805 Band Pass Filter SMD 5W

BP0805A2065ASTR

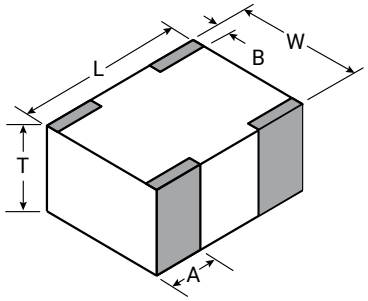
ELECTRICAL CHARACTERISTICS

BP0805A2065ASTR		
Description	**Value**	**Notes**
Fc	2065 MHz	
Insertion Loss @ 1930-2200 MHz	-1.3 dB	Max.
Return Loss @ 1930-2200 MHz	-20 dB	
Rejection @ DC-1000 MHz	-20 dB	
Rejection @ 3400-6000 MHz	-28 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

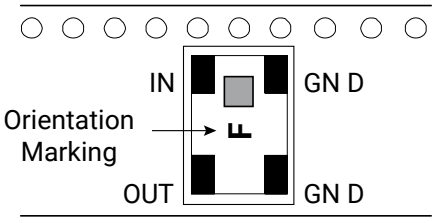


DIMENSIONS (TOP VIEW)

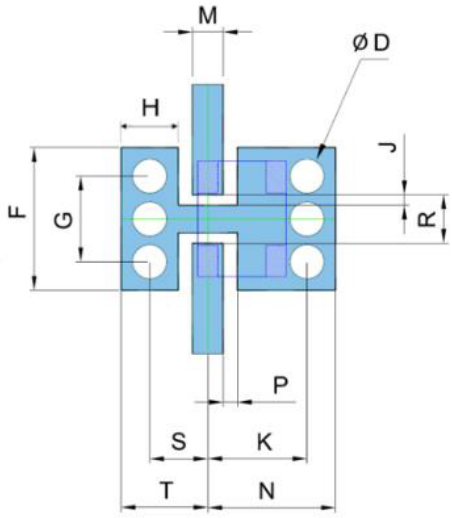


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")
** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

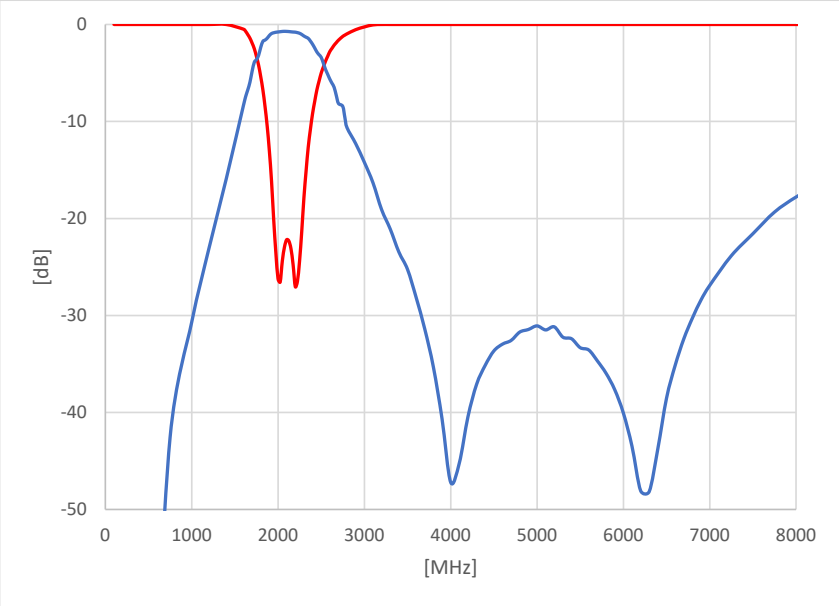
BP0805 Band Pass Filter SMD 5W

BP0805A2160ASTR

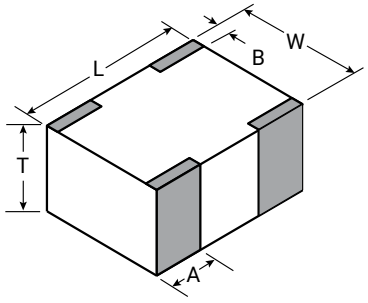
ELECTRICAL CHARACTERISTICS

BP0805A2160ASTR		
Description	**Value**	**Notes**
Fc	2160 MHz	
Insertion Loss @ 1960-2360 MHz	-1.2 dB	Max.
Return Loss @ 1960-2360 MHz	-18 dB	
Rejection @ DC-900 MHz	-30 dB	
Rejection @ 3800-6700 MHz	-30 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

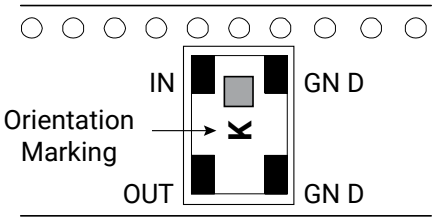


DIMENSIONS (TOP VIEW)

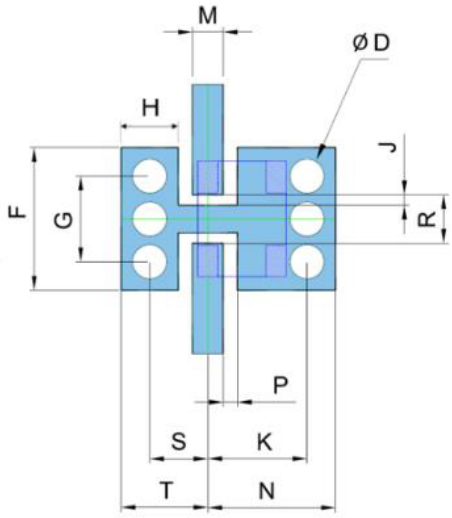


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
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** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

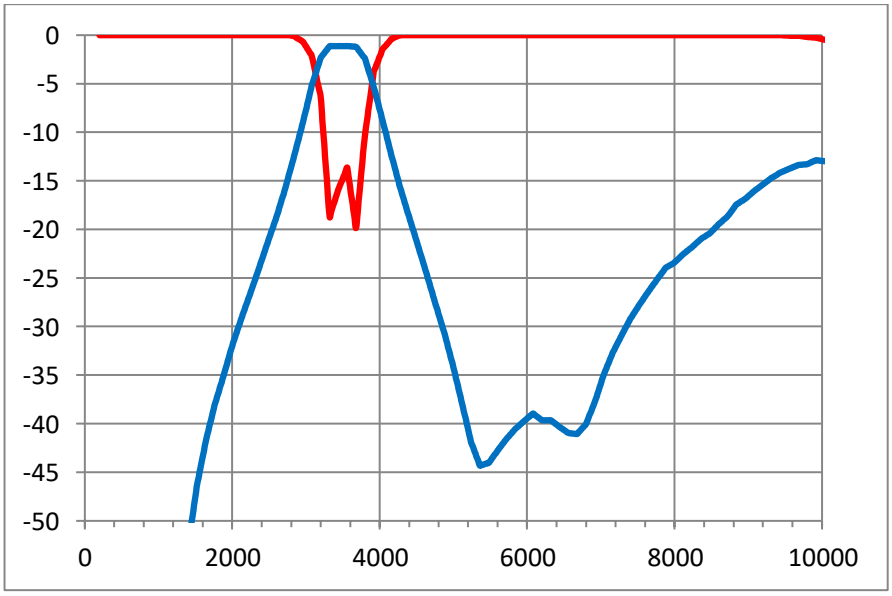
BP0805 Band Pass Filter SMD 5W

BP0805A3450ASTR

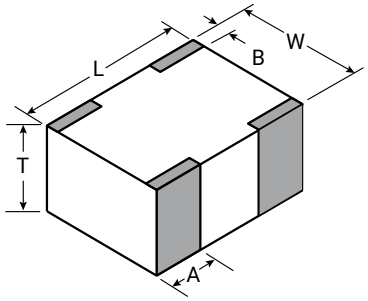
ELECTRICAL CHARACTERISTICS

BP0805A3450ASTR		
Description	**Value**	**Notes**
Fc	3450 MHz	
Insertion Loss @ 3300-3600 MHz	-1.6 dB	Max.
Return Loss @ 3300-3600 MHz	-12 dB	
Rejection @ DC-2000 MHz	-26 dB	
Rejection @ 5000-7000 MHz	-28 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

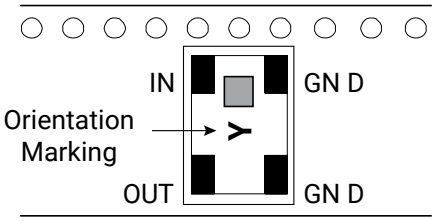


DIMENSIONS (TOP VIEW)

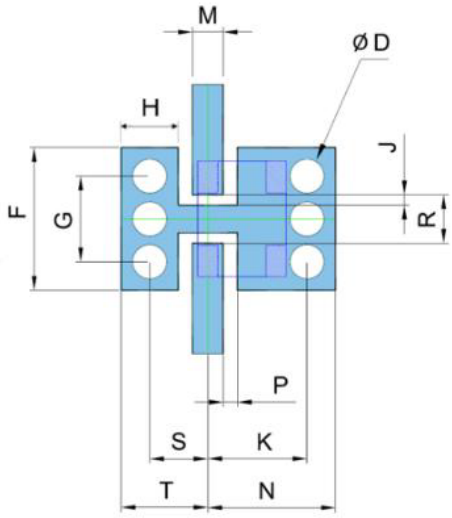


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

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** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

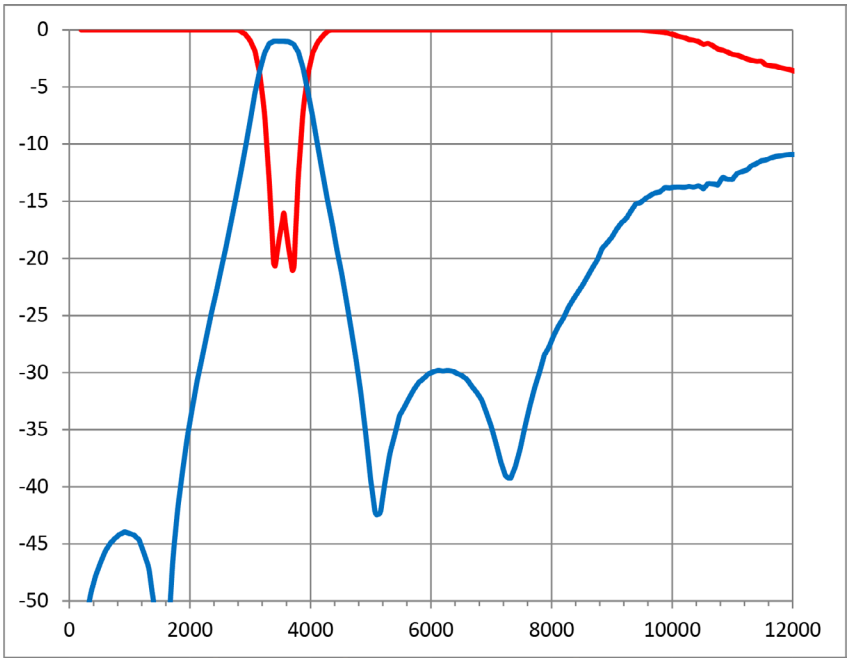
BP0805 Band Pass Filter SMD 5W

BP0805A3500ASTR

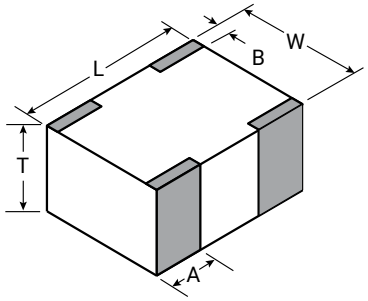
ELECTRICAL CHARACTERISTICS

BP0805A3500ASTR		
Description	**Value**	**Notes**
Fc	3500 MHz	
Insertion Loss @ 3400-3600 MHz	-1.3 dB	Max.
Return Loss @ 3400-3600 MHz	-15 dB	
Rejection @ DC-2000 MHz	-30 dB	
Rejection @ 5000-7800 MHz	-26 dB	
Rejection @ 7801-9000 MHz	-15 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

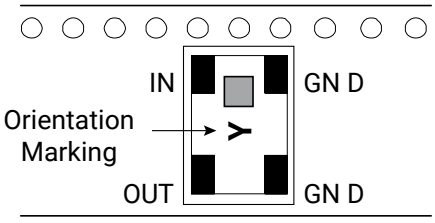


DIMENSIONS (TOP VIEW)

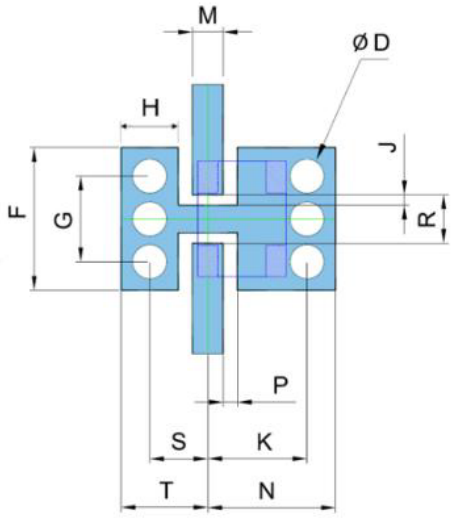


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

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Thin-Film RF/Microwave Filters

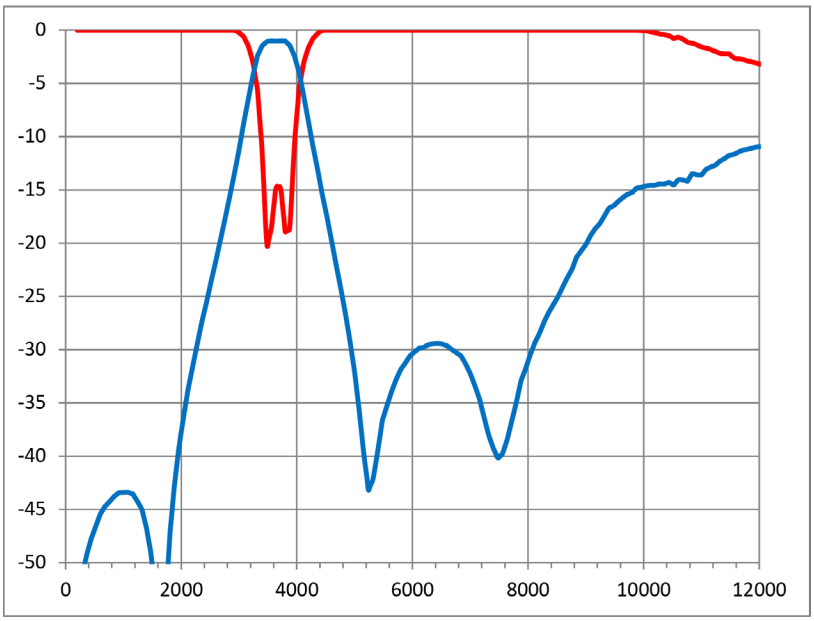
BP0805 Band Pass Filter SMD 5W

BP0805A3600ASTR

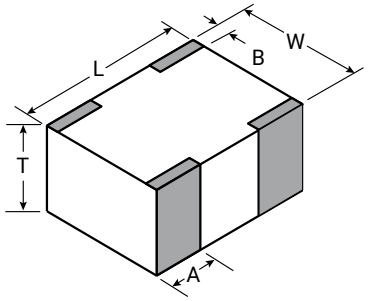
ELECTRICAL CHARACTERISTICS

BP0805A3600ASTR		
Description	**Value**	**Notes**
Fc	3600 MHz	
Insertion Loss @ 3500-3700 MHz	-1.3 dB	Max.
Return Loss @ 3500-3700 MHz	-15 dB	
Rejection @ DC-2000 MHz	-30 dB	
Rejection @ 5300-8000 MHz	-25 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

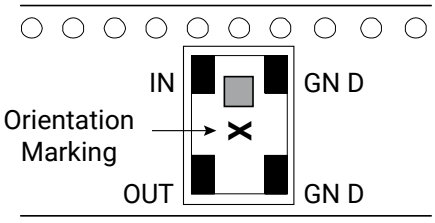


DIMENSIONS (TOP VIEW)

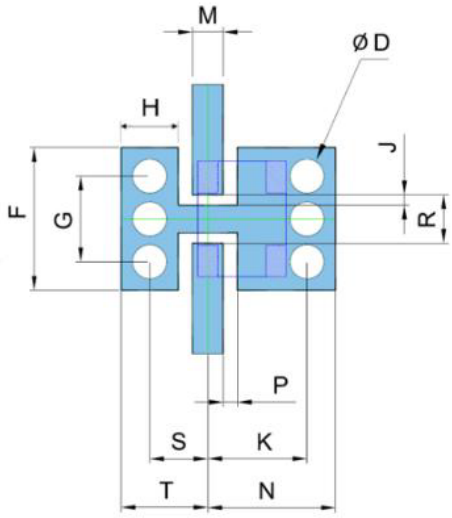


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

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** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

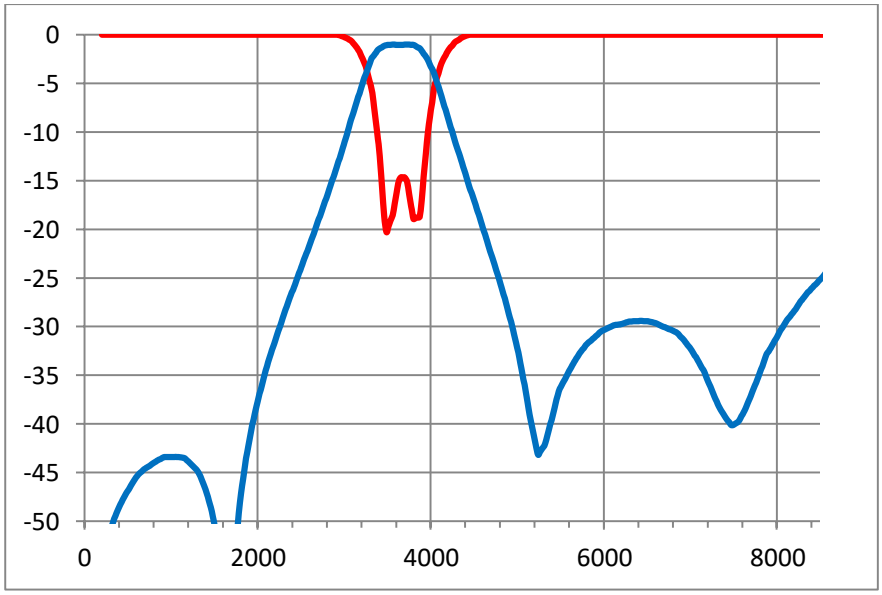
BP0805 Band Pass Filter SMD 5W

BP0805A3602ASTR

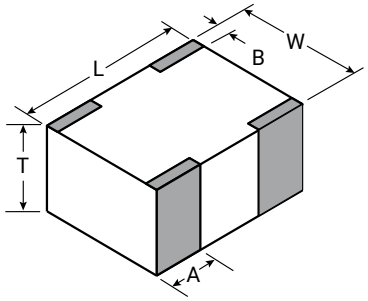
ELECTRICAL CHARACTERISTICS

BP0805A3602ASTR		
Description	**Value**	**Notes**
Fc	3602 MHz	
Insertion Loss @ 3450-3750 MHz	-1.5 dB	
Return Loss @ 3450-3750 MHz	-12 dB	Max.
Rejection @ DC-2000 MHz	-30 dB	
Rejection @ 5200-8000 MHz	-25 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

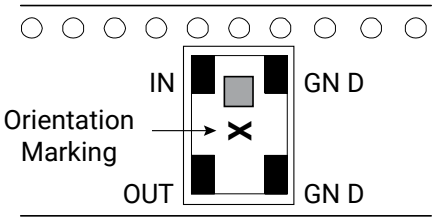


DIMENSIONS (TOP VIEW)

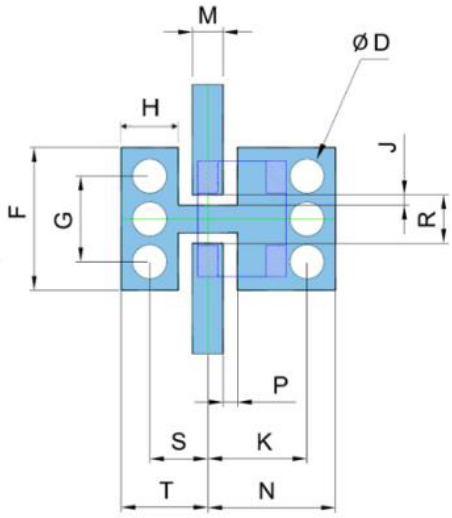


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
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Thin-Film RF/Microwave Filters

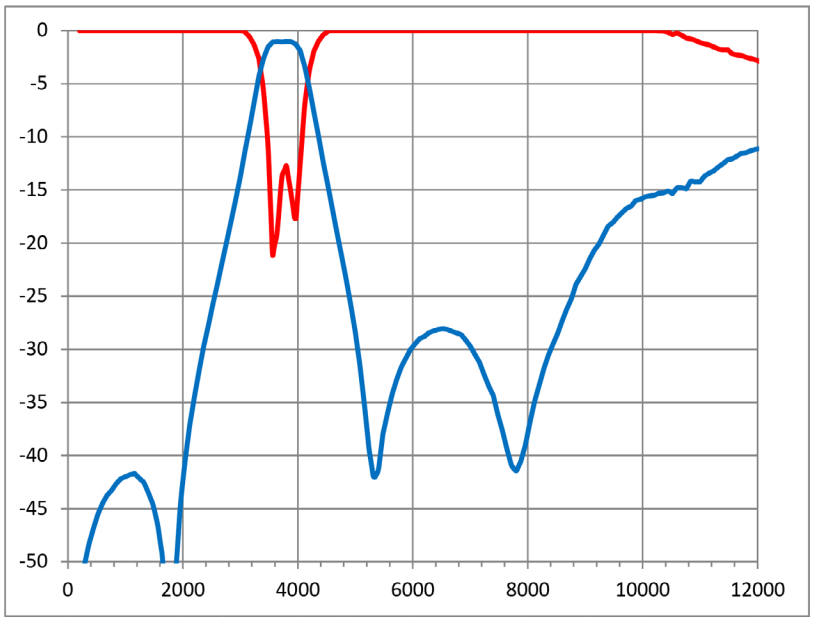
BP0805 Band Pass Filter SMD 5W

BP0805A3700ASTR

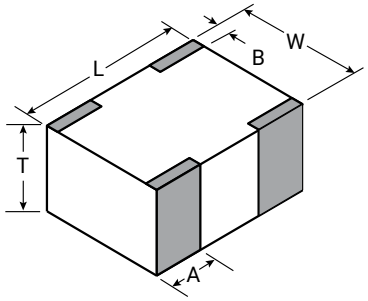
ELECTRICAL CHARACTERISTICS

BP0805A3700ASTR		
Description	**Value**	**Notes**
Fc	3700 MHz	
Insertion Loss @ 3600-3800 MHz	-1.3 dB	Max.
Return Loss @ 3600-3800 MHz	-15 dB	
Rejection @ DC-2000 MHz	-30 dB	
Rejection @ 5300-8300 MHz	-26 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

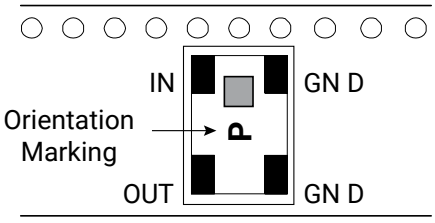


DIMENSIONS (TOP VIEW)

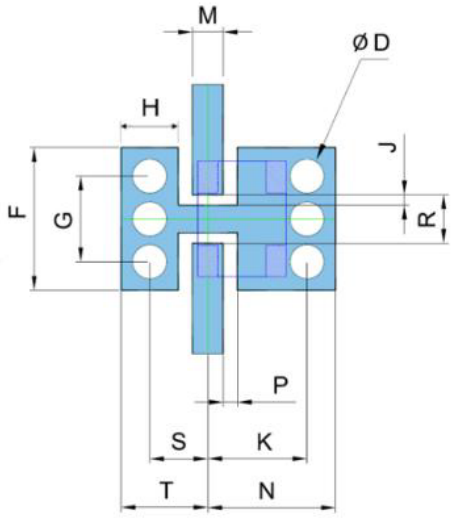


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
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TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
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N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
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** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

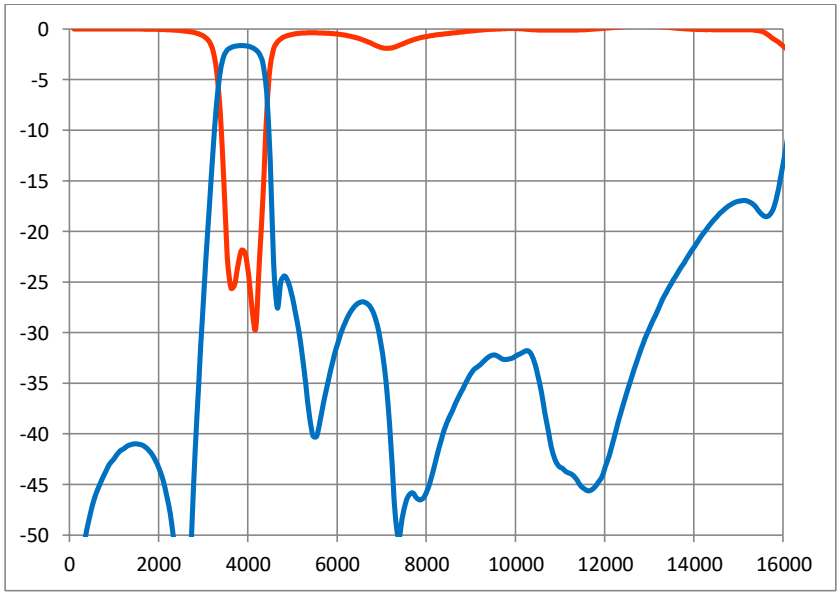
BP0805 Band Pass Filter SMD 5W

BP0805A3840ASTR

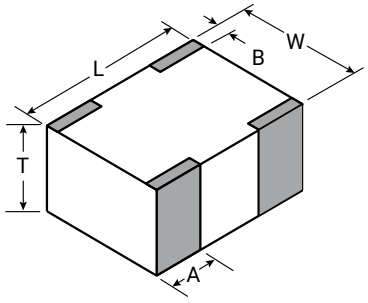
ELECTRICAL CHARACTERISTICS

BP0805A3840ASTR		
Description	**Value**	**Notes**
Fc	3840 MHz	
Insertion Loss @ 3650-4030 MHz	-1.9 dB	Max.
Return Loss @ 3650-4030 MHz	-18 dB	
Rejection @ DC-2900 MHz	-36 dB	
Rejection @ 5500-13000 MHz	-25 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

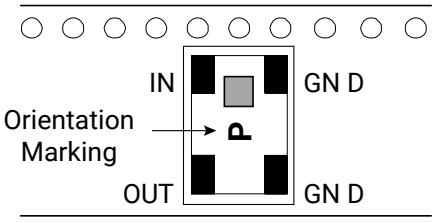


DIMENSIONS (TOP VIEW)

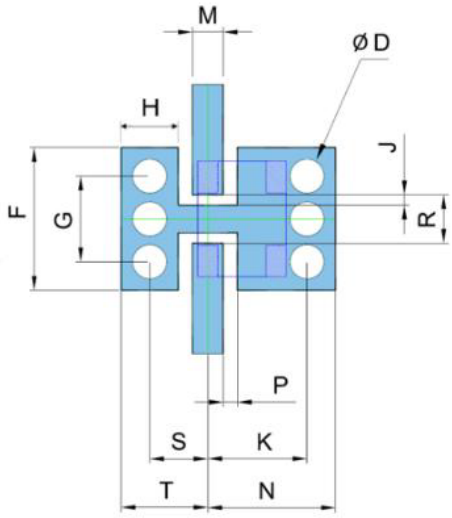


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")
** PCB: Taconic Orcer RF-35P

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Thin-Film RF/Microwave Filters

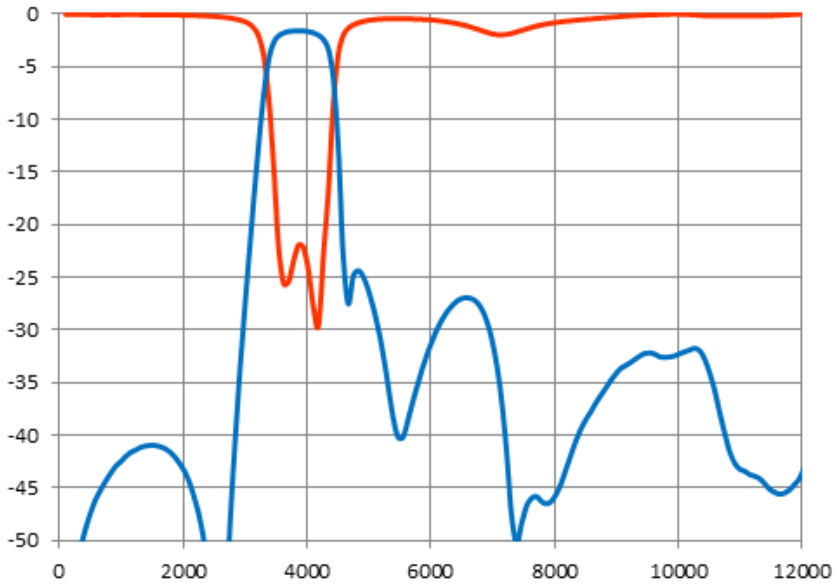
BP0805 Band Pass Filter SMD 5W

BP0805A3900ASTR

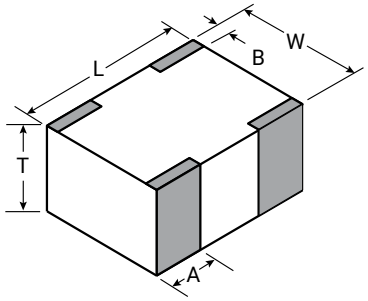
ELECTRICAL CHARACTERISTICS

BP0805A3900ASTR		
Description	**Value**	**Notes**
Fc	3900 MHz	
Insertion Loss @ 3600-4200 MHz	-2.5 dB	Max.
Return Loss @ 3600-4200 MHz	-18 dB	
Rejection @ DC-3000 MHz	-25 dB	
Rejection @ 5100-7000 MHz	-25 dB	
Rejection @ 7000-10000 MHz	-30 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

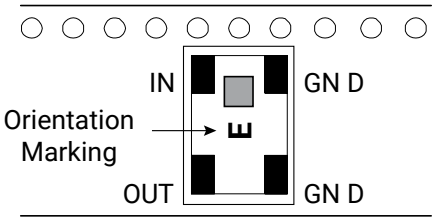


DIMENSIONS (TOP VIEW)

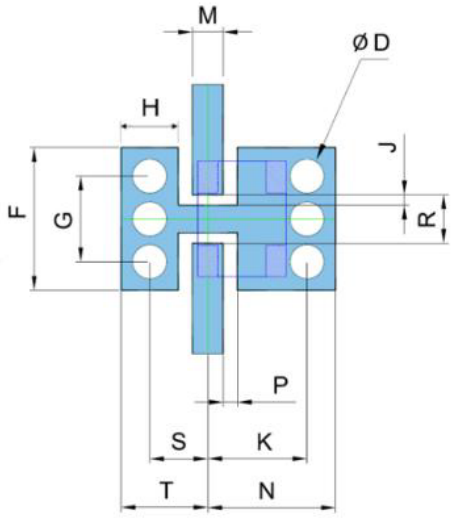


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
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Thin-Film RF/Microwave Filters

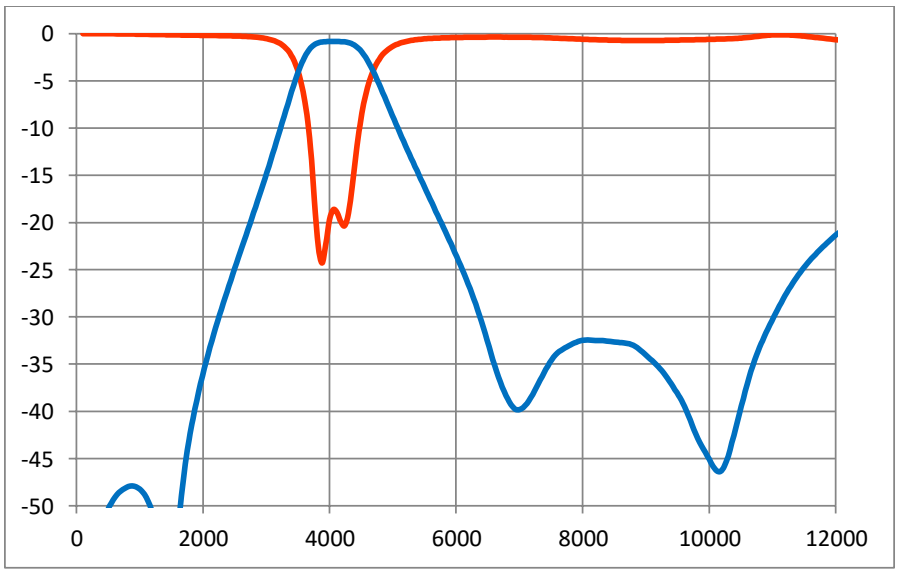
BP0805 Band Pass Filter SMD 5W

BP0805A4050ASTR

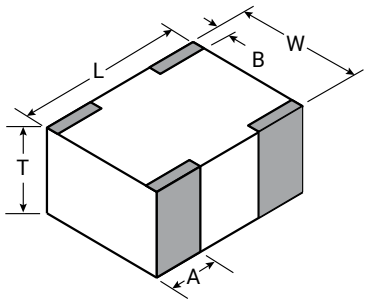
ELECTRICAL CHARACTERISTICS

BP0805A4050ASTR		
Description	**Value**	**Notes**
Fc	4050 MHz	
Insertion Loss @ 3700-4400 MHz	-1.8 dB	Max.
Return Loss @ 3700-4400 MHz	-18 dB	
Rejection @ DC-2000 MHz	-30 dB	
Rejection @ 6500-10500 MHz	-30 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

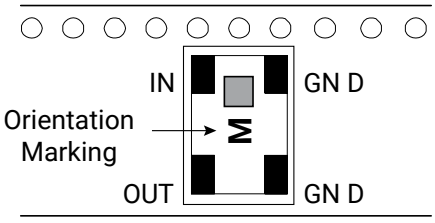


DIMENSIONS (TOP VIEW)

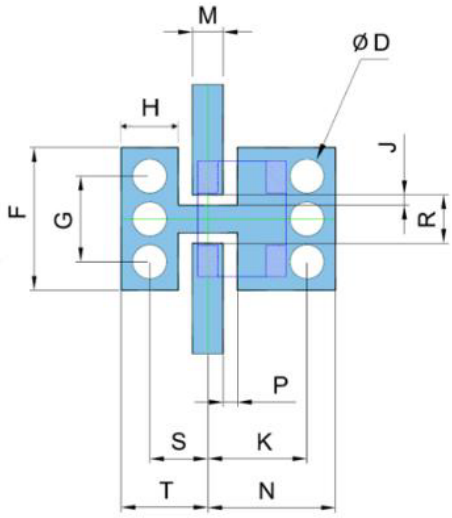


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
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Thin-Film RF/Microwave Filters

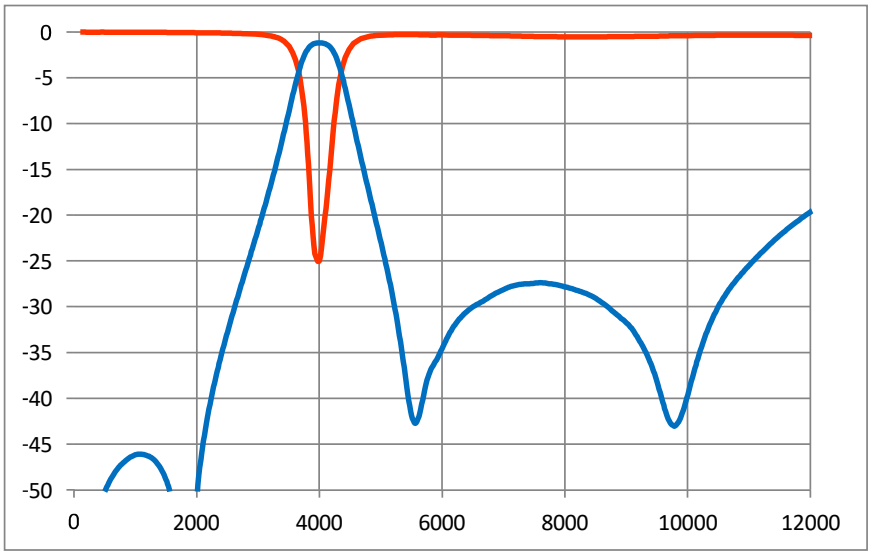
BP0805 Band Pass Filter SMD 5W

BP0805B4050ASTR

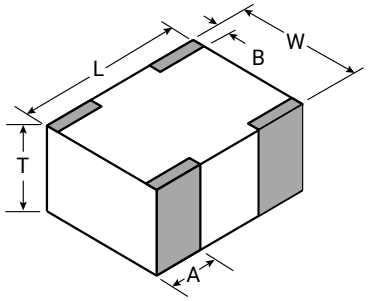
ELECTRICAL CHARACTERISTICS

BP0805B4050ASTR		
Description	**Value**	**Notes**
Fc	4050 MHz	
Insertion Loss @ 4000-4100 MHz	-1.3 dB	Max.
Return Loss @ 4000-4100 MHz	-18 dB	
Rejection @ DC-2000 MHz	-40 dB	
Rejection @ 6000-8000 MHz	-25 dB	
Rejection @ 10000-12000 MHz	-18 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

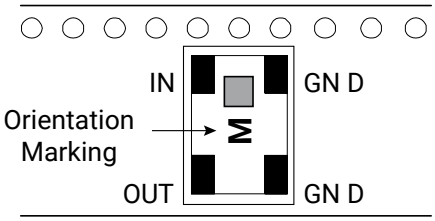


DIMENSIONS (TOP VIEW)

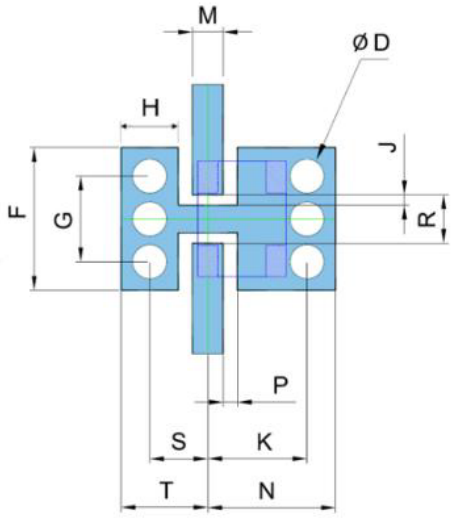


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
øD	ø0.6±0.05 (0.023±0.002)

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Thin-Film RF/Microwave Filters

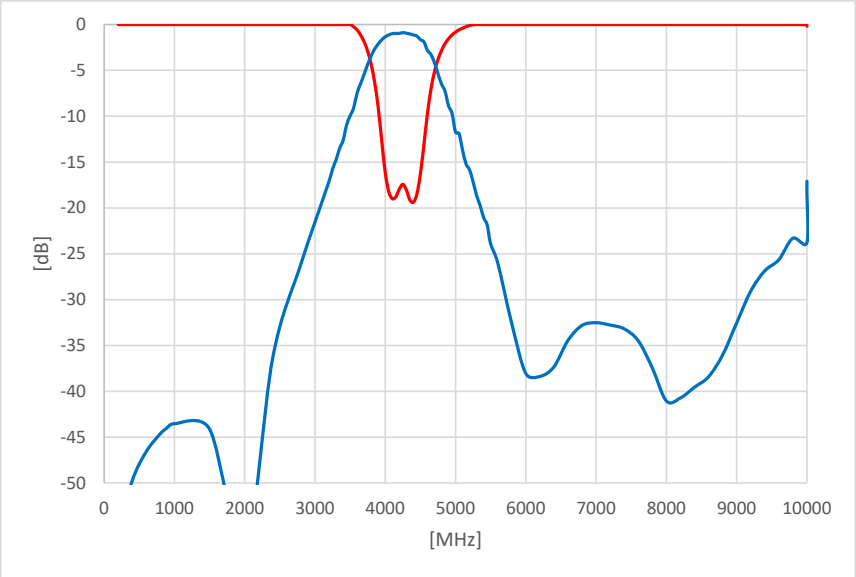
BP0805 Band Pass Filter SMD 5W

BP0805A4320ASTR

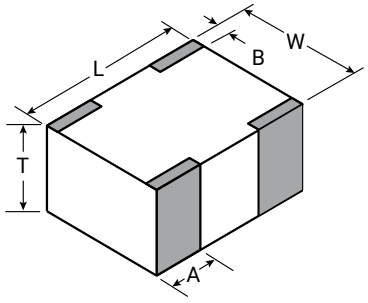
ELECTRICAL CHARACTERISTICS

BP0805A4320ASTR		
Description	**Value**	**Notes**
Fc	4320 MHz	
Insertion Loss @ 4120-4520 MHz	-1.2 dB	Max.
Return Loss @ 4120-4520 MHz	-15 dB	
Rejection @ DC-2100 MHz	-40 dB	
Rejection @ 5800-9300 MHz	-25 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE



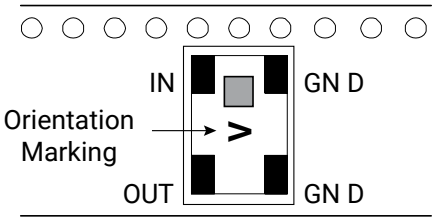
DIMENSIONS (TOP VIEW)



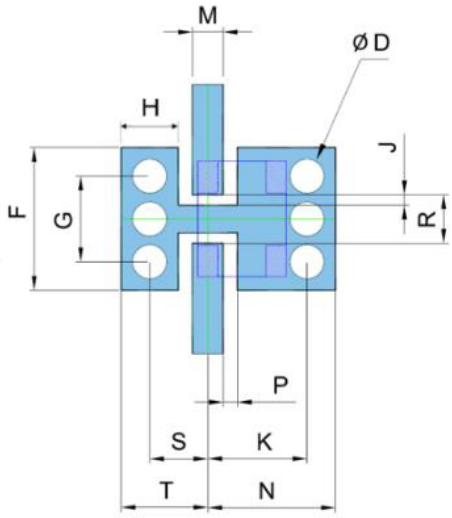
mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)

M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
P	0.25±0.05 (0.0098±0.002)
K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
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Thin-Film RF/Microwave Filters

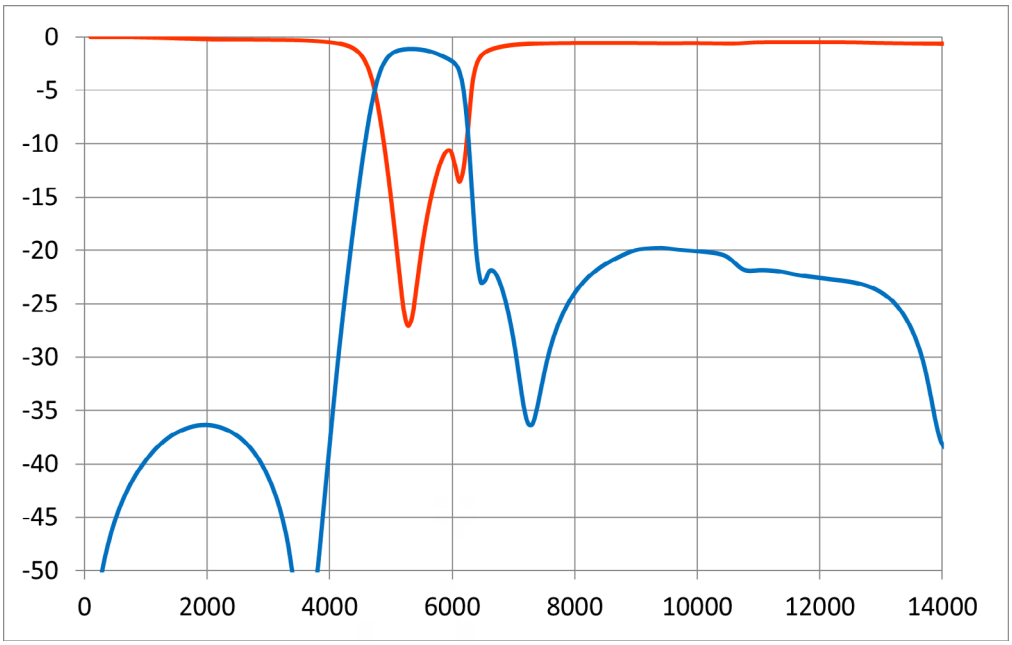
BP0805 Band Pass Filter SMD 5W

BP0805A5805ASTR

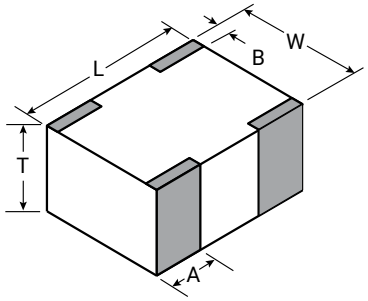
ELECTRICAL CHARACTERISTICS

BP0805A5805ASTR		
Description	**Value**	**Notes**
Fc	5805 MHz	
Insertion Loss @ 5795-5815 MHz	-2.0 dB	Max.
Return Loss @ 5795-5815 MHz	-15 dB	
Rejection @ DC-4000 MHz	-32 dB	
Rejection @ 8000-11000 MHz	-18 dB	
Rejection @ 11000-14000 MHzx	-20 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE

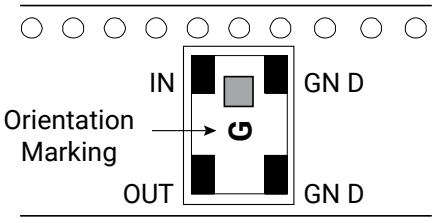


DIMENSIONS (TOP VIEW)

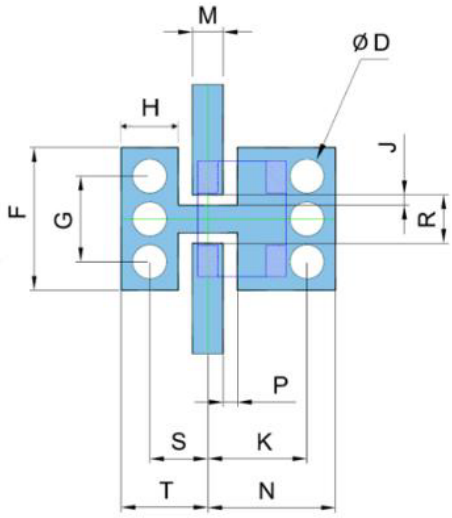


mm (inches)	
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
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TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)	
M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
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K	1.74±0.05 (0.068±0.002)
N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
T	1.52±0.05 (0.040±0.002)
G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
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Thin-Film RF/Microwave Filters

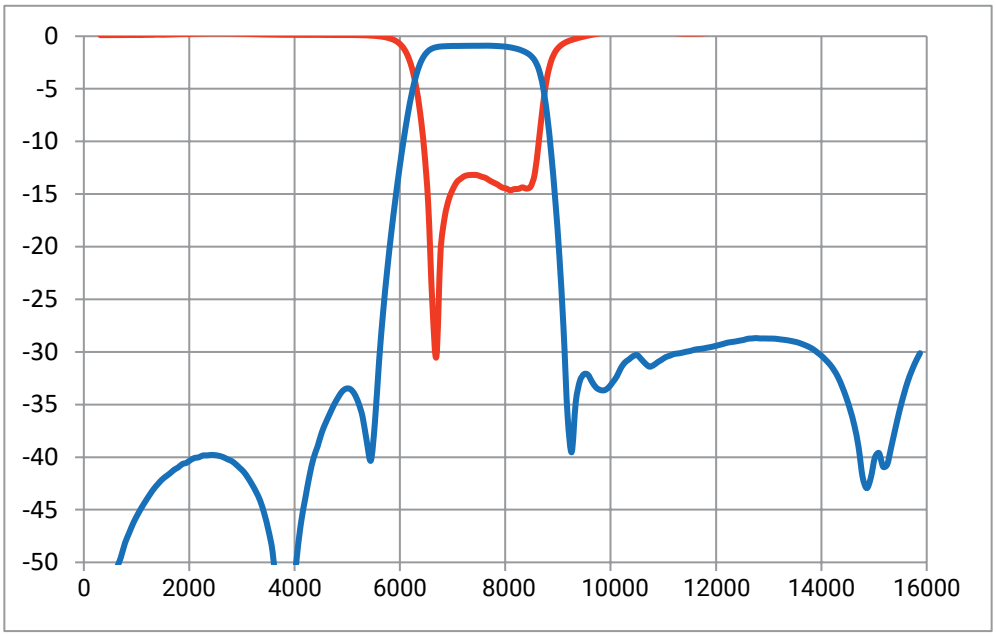
BP0805 Band Pass Filter SMD 5W

BP0805A7250ASTR

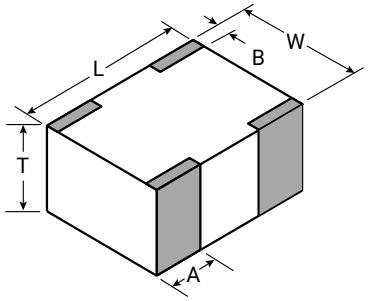
ELECTRICAL CHARACTERISTICS

BP0805A7250ASTR		
Description	**Value**	**Notes**
Fc	7250 MHz	
Insertion Loss @ 6625-7875 MHz	-1.5 dB	
Return Loss @ 6625-7875 MHz	-12 dB	
Rejection @ DC-5400 MHz	-30 dB	
Rejection @ 10000-15000 MHz	-26 dB	
Power Handling (CW)	5 Watt	
Impedance	50 Ohm	
Operating Temperature Range	-40 to +85 °C	

TYPICAL ELECTRICAL PERFORMANCE



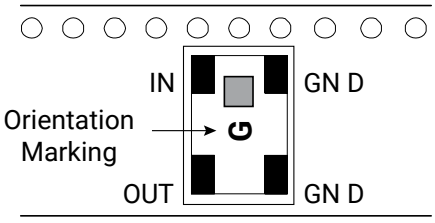
DIMENSIONS (TOP VIEW)



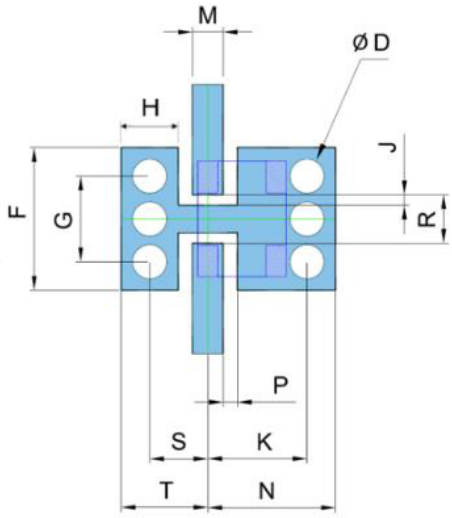
mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.022±0.004)
A	0.56±0.25 (0.022±0.010)
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TERMINAL AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT



mm (inches)

M	0.54±0.025 (0.021±0.0001)
J	0.19±0.05 (0.0075±0.002)
R	0.85±0.05 (0.033±0.002)
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N	2.24±0.05 (0.088±0.002)
S	1.02±0.05 (0.040±0.002)
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G	1.5±0.05 (0.06±0.002)
H	1±0.05 (0.04±0.002)
F	2.5±0.05 (0.098±0.002)
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