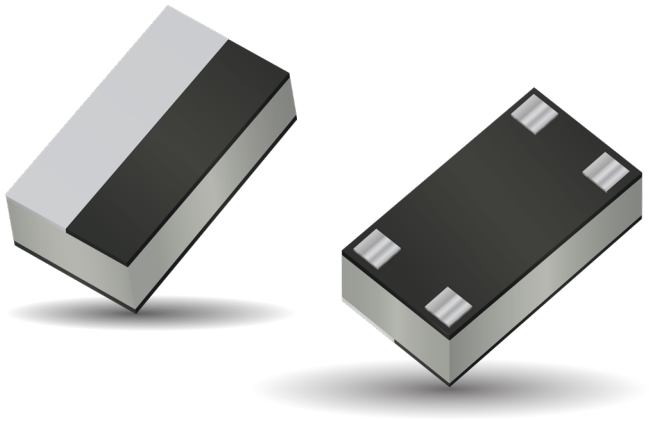
Thin Film
Band Pass Filters

BP2816 8W Band Pass Filter

Thin-Film RF/Microwave Filters

BP2816 8W Band Pass Filter

General Information



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: 7x4x1mm (LxWxT)
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C to +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- VHF / UHF applications
- Mobile communications
- Satellite TV recievers
- GPS
- Vehicle location systems
- Wireless LAN's

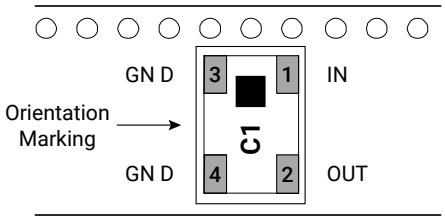
HOW TO ORDER

BP	2816	A	XXXX	S	N	TR
Series	Case Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

N = Nickel/Lead-Free Solder Coated (Sn100), LGA

L = Nickel/Solder Coated (Sn90, Pb10), LGA

TERMINALS (TOP VIEW), IN REEL



FINAL QUALITY INSPECTION

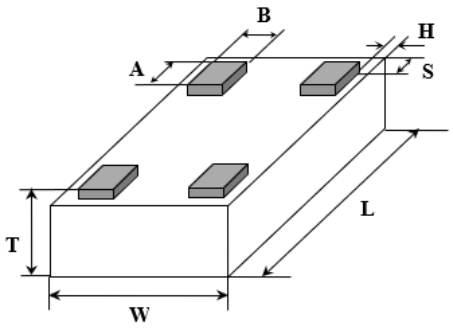
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- 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.

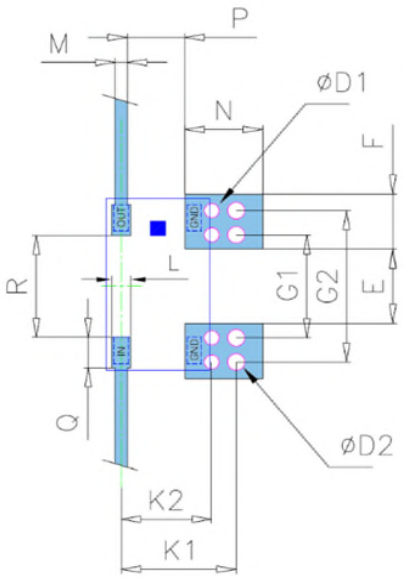
DIMENSIONS (BOTTOM VIEW)



mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

RECOMMENDED PAD LAYOUT – mm (INCHES)



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

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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ELECTRICAL PERFORMANCE

Part Number	Passband				Stopband Rejection					
	Frequency		I.L	R.L	Low Band		High Band			
					Band	Rejection	Band	Rejection	Band	Rejection
			dB (max)	dB (Typ)	MHz	dB	MHz	dB	MHz	dB
BP2816A0190SNTR	140	240	-2.0	-12	50	-35	400 - 800	-50	---	---
BP2816A0195SNTR	130	260	-2.4	-12	400	-30	1740	-50	---	---
BP2816A0277SNTR	225	330	-1.55	-15	100	-30	450 - 660	-35	675 - 990	-37
BP2816A0278SNTR	225	330	-1.5	-15	100	-40	450 - 660	-27	675 - 990	-37
BP2816A0280SNTR	240	320	-1.5	-15	140	-35	480 - 640	-35	640 - 1000	-40
BP2816A0300SNTR	270	330	-1.5	-15	140	-35	600 - 1000	-35	1000 - 1600	-35
BP2816A0312SNTR	225	400	1.3	-15	100	-40	660 - 990	-40	990 - 1500	-37
BP2816A0350SNTR	280	420	-1.5	-15	160	-35	600 - 1000	-35	1000 - 2500	-45
BP2816A0360SNTR	290	430	-1.5	-15	150	-40	580 - 860	-35	860 - 1290	-37
BP2816A0361SNTR	240	480	-2.1	-12	100	-30	400 - 1000	-38	---	---
BP2816A0375SNTR	250	500	-2.2	-12	640	-25	1500	-50	---	---
BP2816A0480SNTR	370	590	-1.3	-15	200	-40	800 - 1500	-38	1501 - 3000	-45
BP2816A0490SNTR	390	590	-1.5	-15	200	-40	780 - 1180	-35	1190 - 1770	-37
BP2816A0660SNTR	520	800	-1.4	-12	330	-40	1100 - 1680	-35	1690 - 2520	-37
BP2816A0695SNTR	550	840	-1.5	-15	330	-40	1100 - 1680	-35	1690 - 2520	-37
BP2816A0750SNTR	500	1000	-2.0	-12	260	-30	1500	-55	---	---
BP2816A0768SNTR	668	868	-2.2	-15	500	-30	1100 - 4000	-37	---	---
BP2816A0795SNTR	580	1010	-2	-12	300	-25	1300 - 1800	-35	1800 - 3030	-40
BP2816A0975SNTR	650	1300	-2.5	-15	500	-35	1700 - 4500	-35	---	---
BP2816A1000SNTR	800	1200	-1.6	-15	500	-35	1700 - 4000	-35	---	---
BP2816A1010SNTR	760	1260	-1.3	-15	450	-33	1600 - 2000	-35	2000 - 4500	-40
BP2816A1020SNTR	800	1240	-1.5	-15	430	-40	1600 - 2480	-35	2490 - 3720	-37
BP2816A1625SNTR	1500	1750	-4.0	-12	1200	-50	2000	-50	---	---
BP2816A2375SNTR	2250	2500	-5	-12	2000	-48	2750	-60	---	---

Click on part number to see full specifications

Thin-Film RF/Microwave Filters

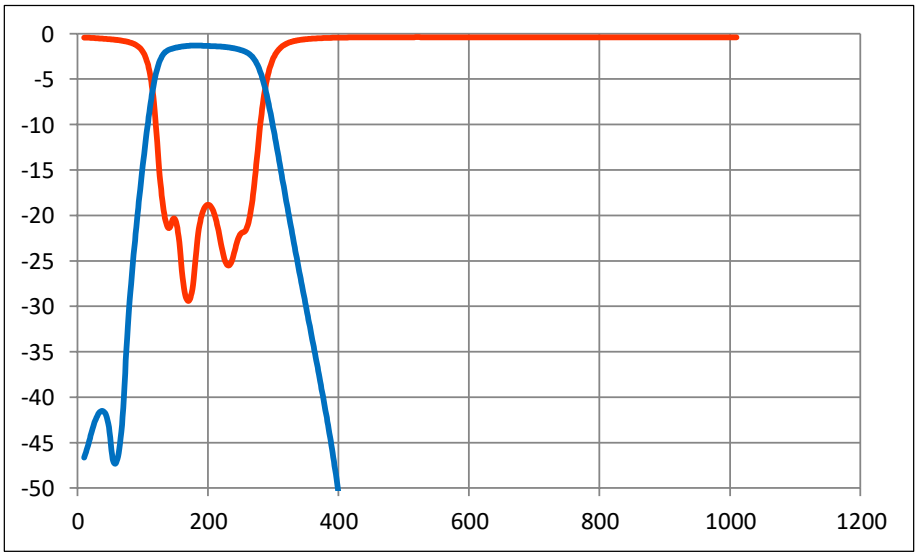
BP2816 8W Band Pass Filter

BP2816A0190SNTR

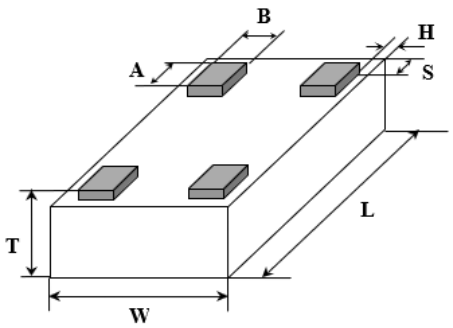
ELECTRICAL CHARACTERISTICS

BP2816A0190SNTR		
Description	**Value**	**Notes**
Center Frequency	190 MHz	
Impedance	50 Ohm	
I. Loss @ 140 - 240 MHz	-2.0 dB	
In-Band Return Loss	-12 dB	
Rejection @ 50 MHz	-35 dB	
Rejection @ 400 - 800 MHz	-50 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



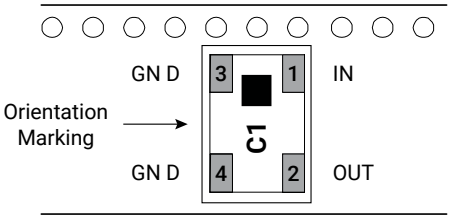
DIMENSIONS (BOTTOM VIEW)



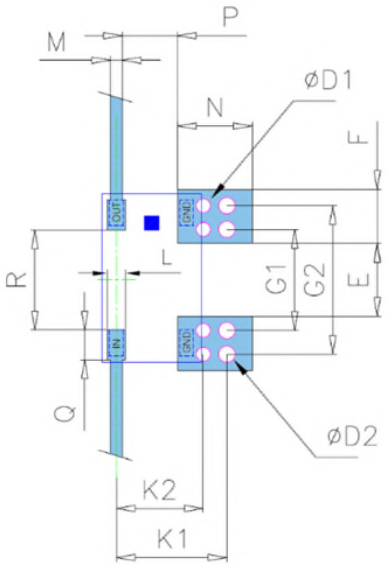
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

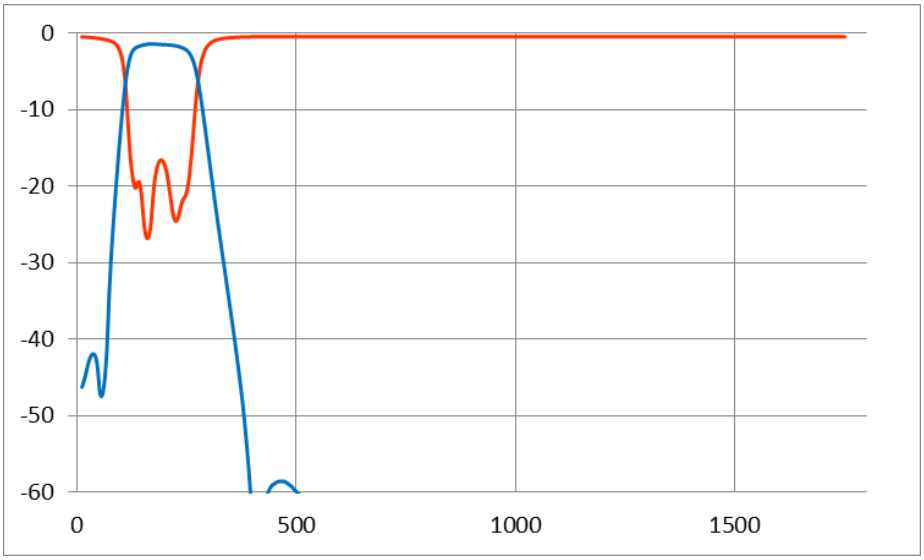
M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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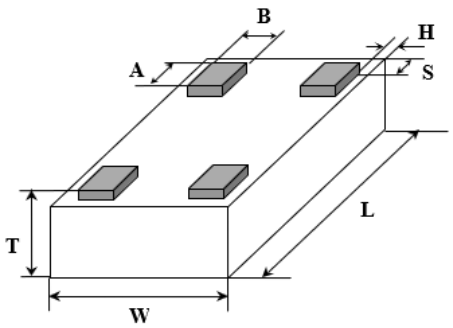
ELECTRICAL CHARACTERISTICS

BP2816A0195SNTR		
Description	**Value**	**Notes**
Center Frequency	195 MHz	
Impedance	50 Ohm	
I. Loss @ 130 - 260 MHz	-2.4 dB	
In-Band Return Loss	-12 dB	
Rejection @ 400 MHz	-30 dB	
Rejection @ 1740 MHz	-50 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



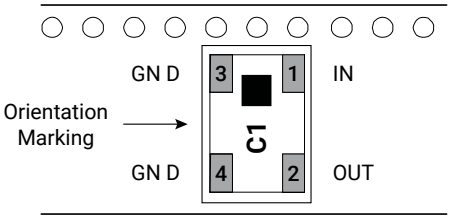
DIMENSIONS (BOTTOM VIEW)



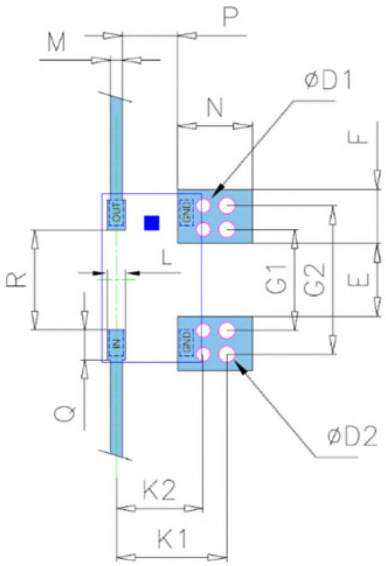
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

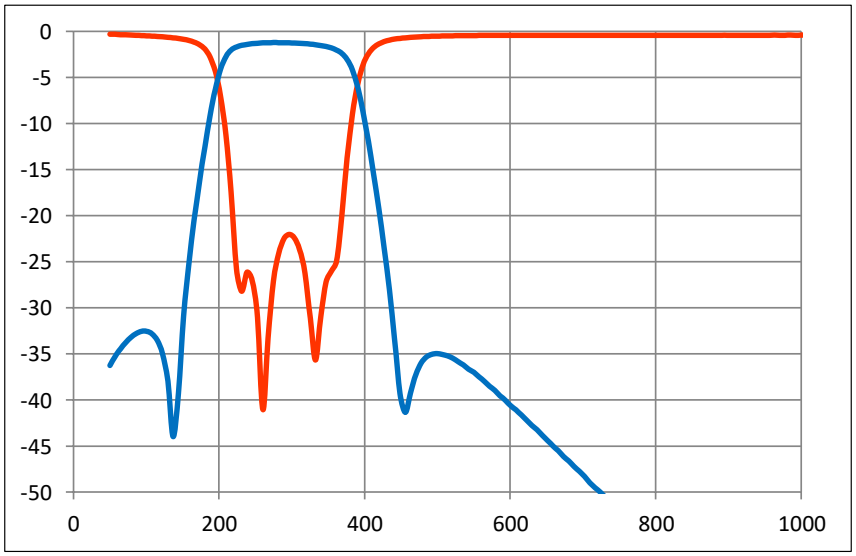
BP2816 8W Band Pass Filter

BP2816A0277SNTR

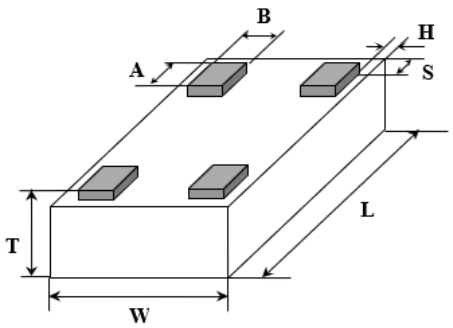
ELECTRICAL CHARACTERISTICS

BP2816A0277SNTR		
Description	**Value**	**Notes**
Center Frequency	277 MHz	
Impedance	50 Ohm	
I. Loss @ 225 - 330 MHz	-1.55 dB	
In-Band Return Loss	-15 dB	
Rejection @ 100 MHz	-30 dB	
Rejection @ 450 - 660 MHz	-35 dB	
Rejection @ 675 - 990 MHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



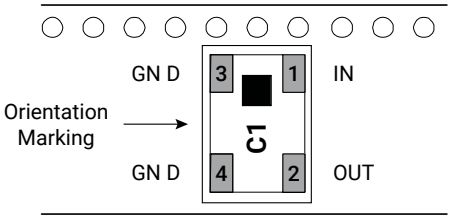
DIMENSIONS (BOTTOM VIEW)



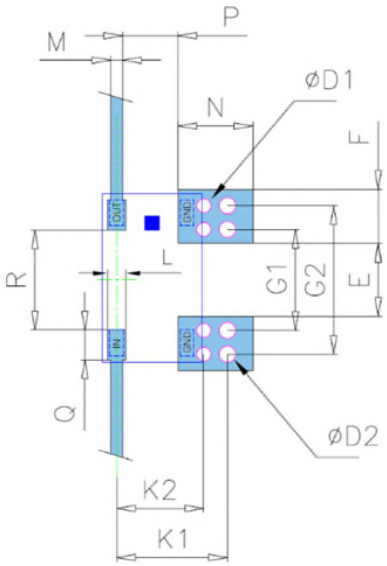
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

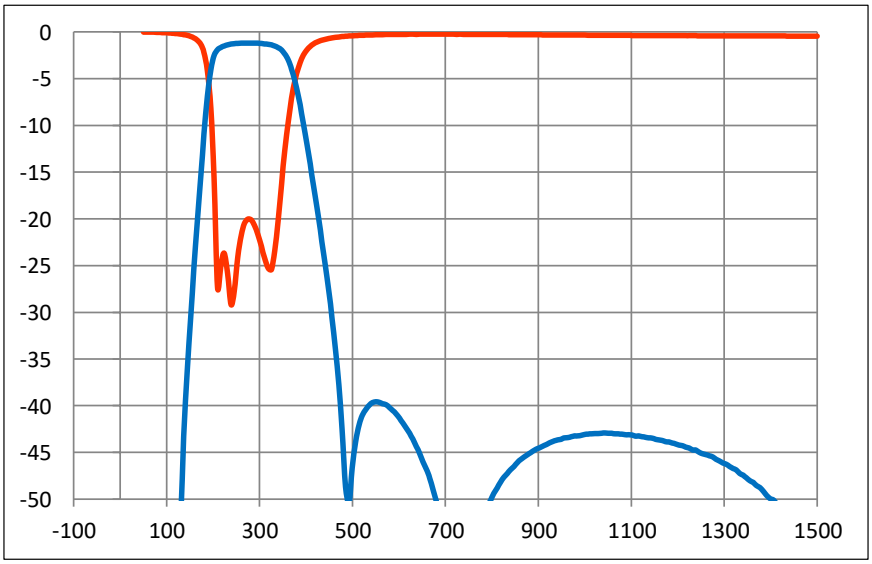
BP2816 8W Band Pass Filter

BP2816A0278SNTR

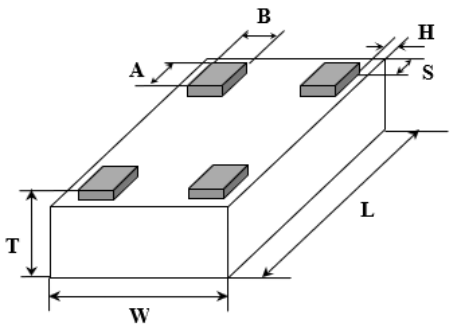
ELECTRICAL CHARACTERISTICS

BP2816A0278SNTR		
Description	**Value**	**Notes**
Center Frequency	278 MHz	
Impedance	50 Ohm	
I. Loss @ 225 - 330 MHz	-1.5 dB	Max.
In-Band Return Loss	-15 dB	Min.
Ripple In-Band	-0.8 dB	Max.
Rejection @ 100 MHz	-40 dB	
Rejection @ 450 - 660 MHz	-27 dB	
Rejection @ 675 - 990 MHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



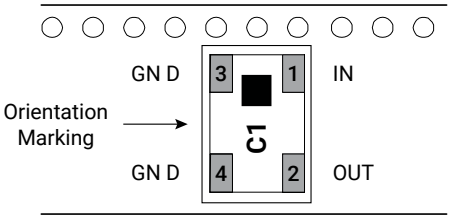
DIMENSIONS (BOTTOM VIEW)



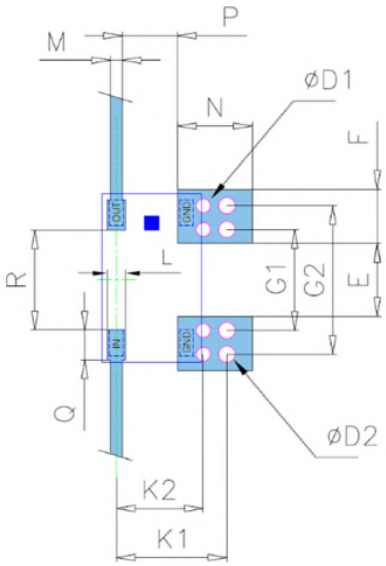
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
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Thin-Film RF/Microwave Filters

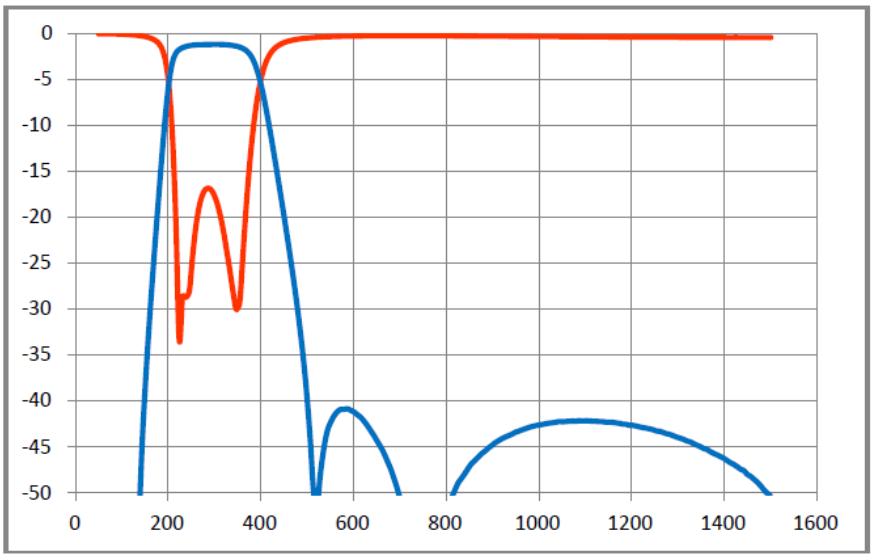
BP2816 8W Band Pass Filter

BP2816A0280SNTR

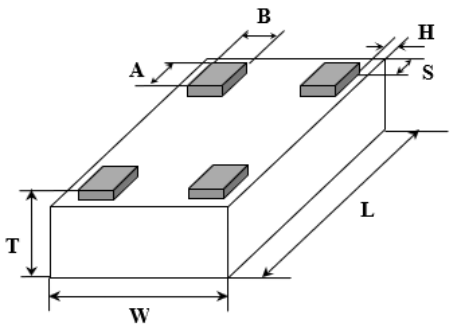
ELECTRICAL CHARACTERISTICS

BP2816A0280SNTR		
Description	**Value**	**Notes**
Center Frequency	280 MHz	
Impedance	50 Ohm	
I. Loss @ 240 - 320 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 140 MHz	-35 dB	
Rejection @ 480 - 640 MHz	-35 dB	
Rejection @ 640 - 1000 MHz	-40 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



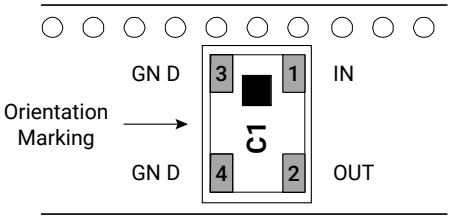
DIMENSIONS (BOTTOM VIEW)



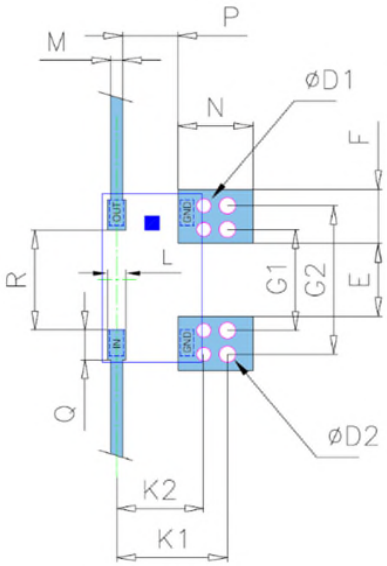
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

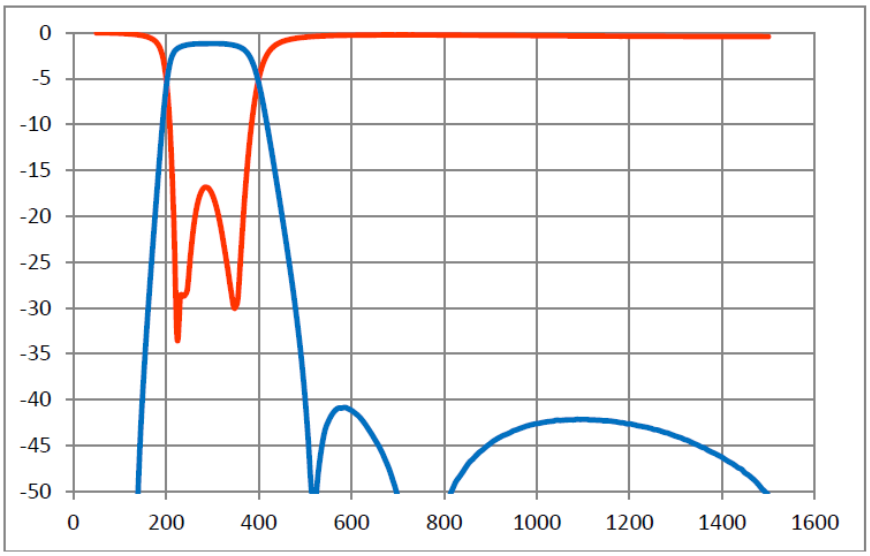
BP2816 8W Band Pass Filter

BP2816A0300SNTR

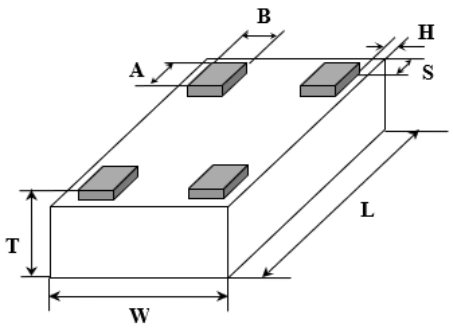
ELECTRICAL CHARACTERISTICS

BP2816A0300SNTR		
Description	**Value**	**Notes**
Center Frequency	300 MHz	
Impedance	50 Ohm	
I. Loss @ 270 - 330 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 140 MHz	-35 dB	
Rejection @ 600 - 1000 MHz	-35 dB	
Rejection @ 1000 - 1600 MHz	-35 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



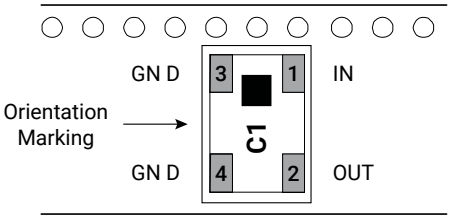
DIMENSIONS (BOTTOM VIEW)



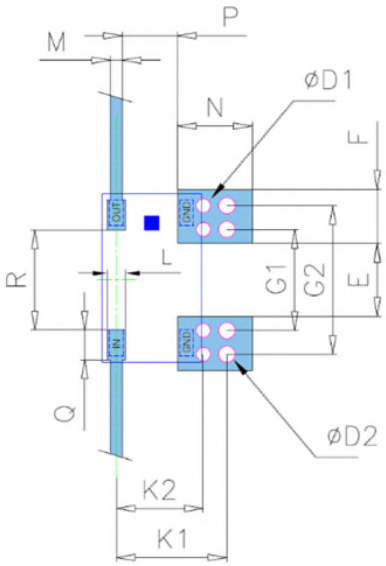
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

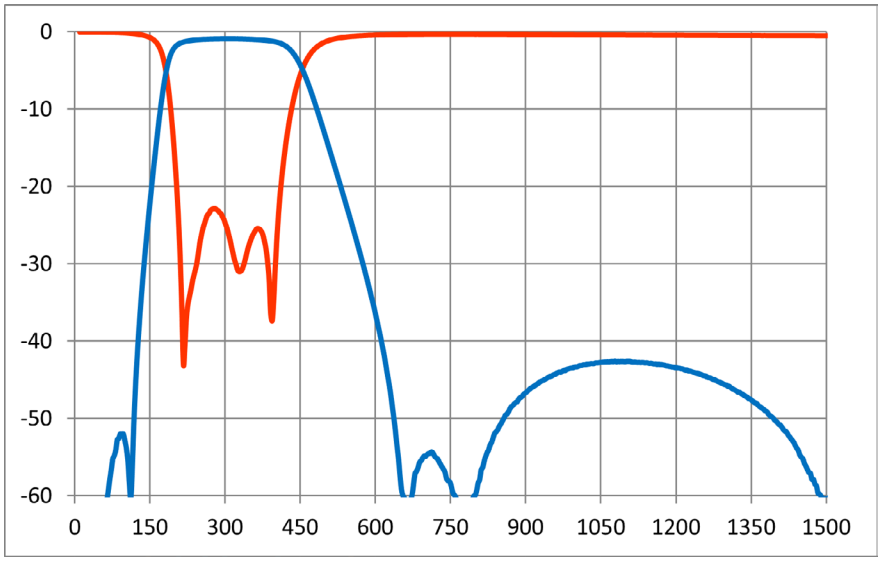
BP2816 8W Band Pass Filter

BP2816A0312SNTR

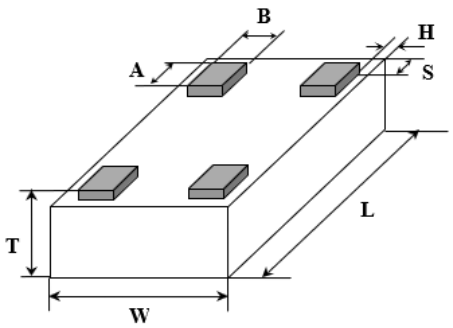
ELECTRICAL CHARACTERISTICS

BP2816A0312SNTR		
Description	**Value**	**Notes**
Center Frequency	312 MHz	
Impedance	50 Ohm	
I. Loss @ 225 - 400 MHz	-1.3 dB	
In-Band Return Loss	-15 dB	
Rejection @ 100 MHz	-40 dB	
Rejection @ 660 - 990 MHz	-40 dB	
Rejection @ 990 - 1500 MHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



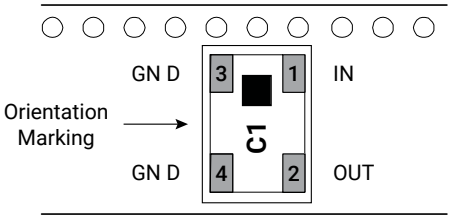
DIMENSIONS (BOTTOM VIEW)



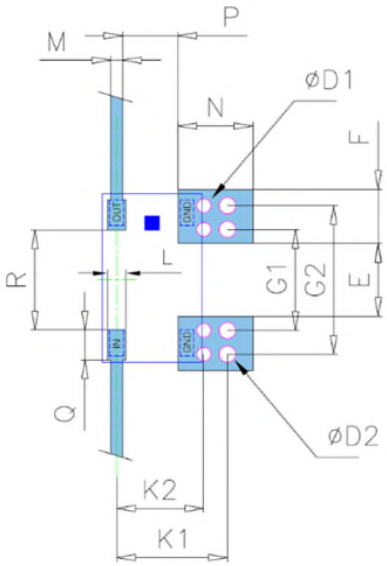
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

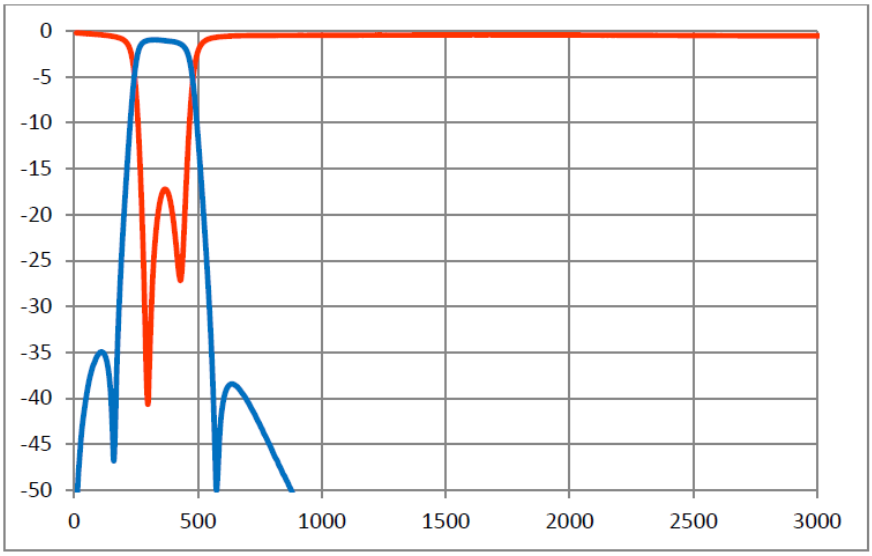
BP2816 8W Band Pass Filter

BP2816A0350SNTR

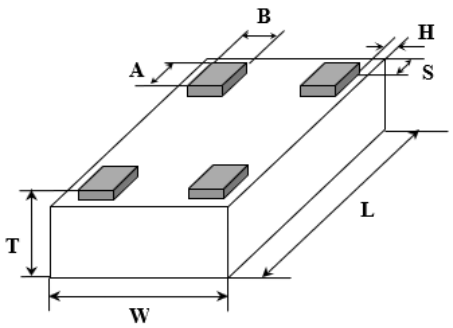
ELECTRICAL CHARACTERISTICS

BP2816A0350SNTR		
Description	**Value**	**Notes**
Center Frequency	350 MHz	
Impedance	50 Ohm	
I. Loss @ 280 - 420 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 160 MHz	-35 dB	
Rejection @ 600 - 1000 MHz	-35 dB	
Rejection @ 1000 - 2500 MHz	-45 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



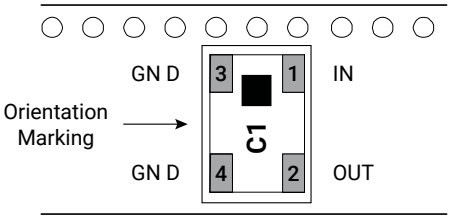
DIMENSIONS (BOTTOM VIEW)



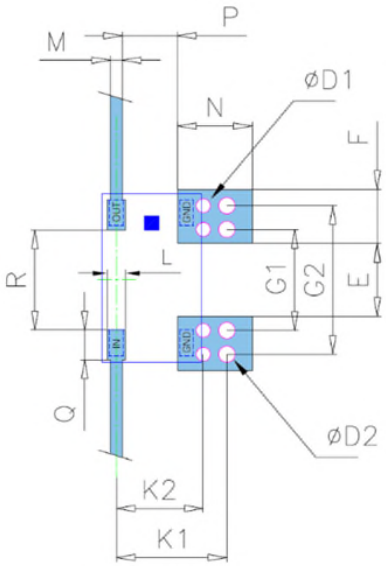
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

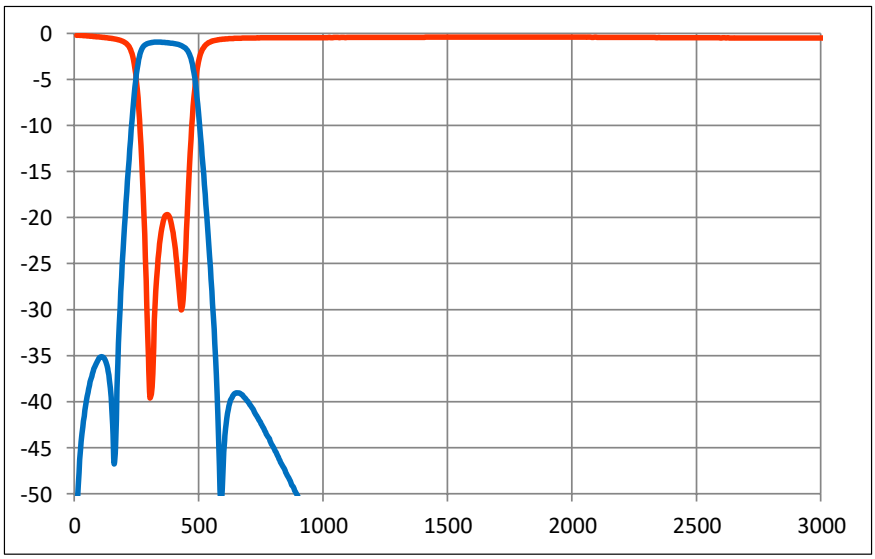
BP2816 8W Band Pass Filter

BP2816A0360SNTR

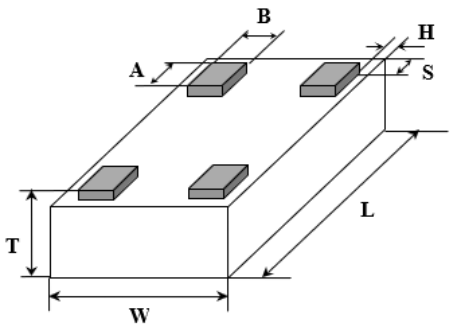
ELECTRICAL CHARACTERISTICS

BP2816A0360SNTR		
Description	**Value**	**Notes**
Center Frequency	360 MHz	
Impedance	50 Ohm	
I. Loss @ 290 - 430 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 150 MHz	-40 dB	
Rejection @ 580 - 860 MHz	-35 dB	
Rejection @ 860 - 1290 MHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



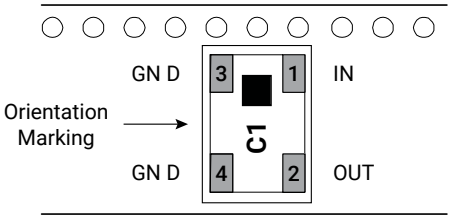
DIMENSIONS (BOTTOM VIEW)



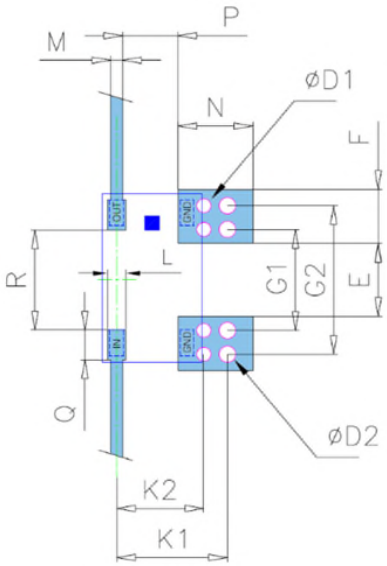
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

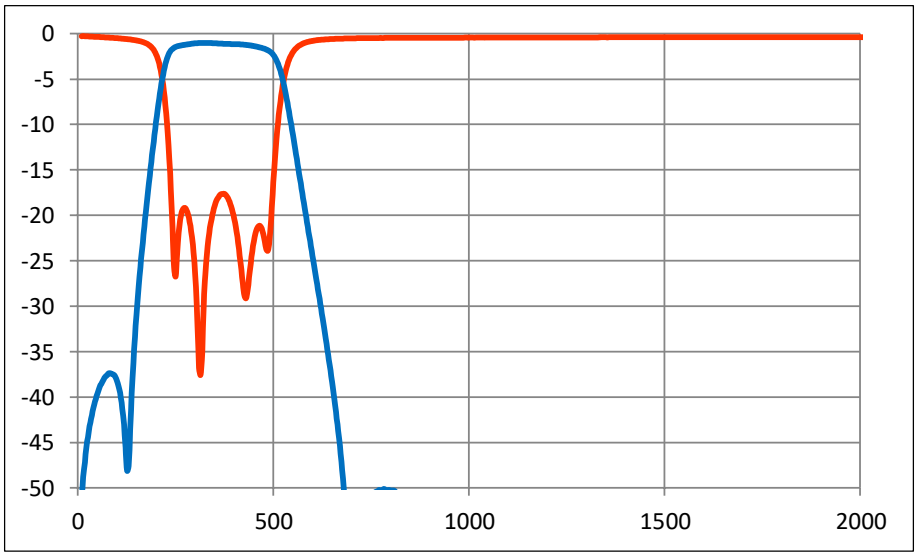
BP2816 8W Band Pass Filter

BP2816A0361SNTR

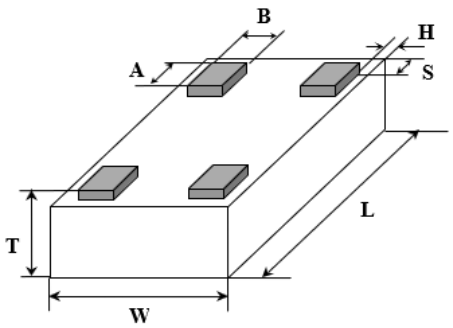
ELECTRICAL CHARACTERISTICS

BP2816A0361SNTR		
Description	**Value**	**Notes**
Center Frequency	360 MHz	
Impedance	50 Ohm	
I. Loss @ 240 - 480 MHz	-2.1 dB	
In-Band Return Loss	-12 dB	
Rejection @ 100 MHz	-30 dB	
Rejection @ 400 - 1000 MHz	-38 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



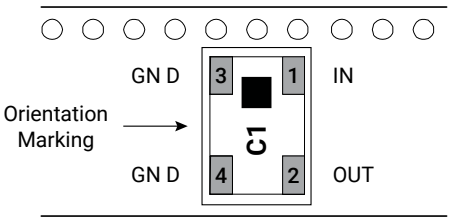
DIMENSIONS (BOTTOM VIEW)



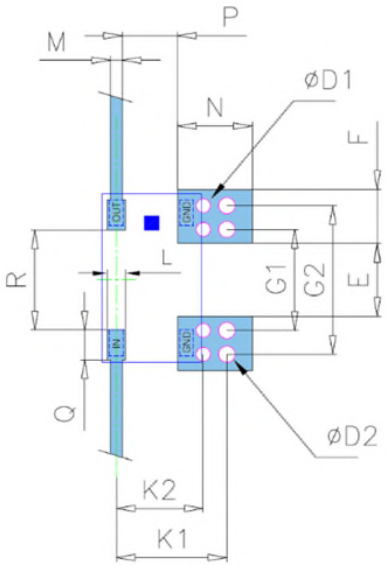
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

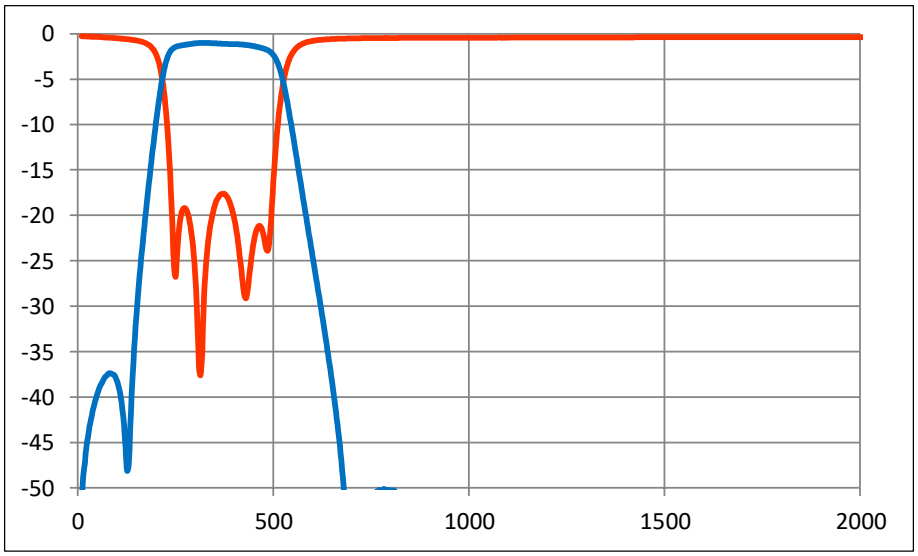
M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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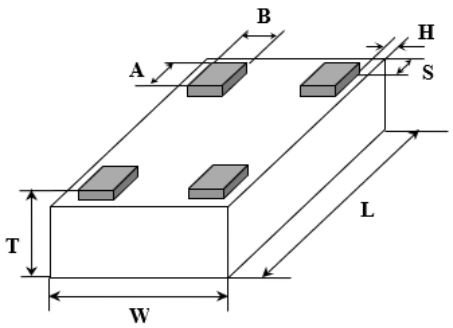
ELECTRICAL CHARACTERISTICS

BP2816A0375SNTR		
Description	**Value**	**Notes**
Center Frequency	375 MHz	
Impedance	50 Ohm	
I. Loss @ 250 - 500 MHz	-2.2 dB	
In-Band Return Loss	-12 dB	
Rejection @ 640 MHz	-25 dB	
Rejection @ 1500 MHz	-50 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



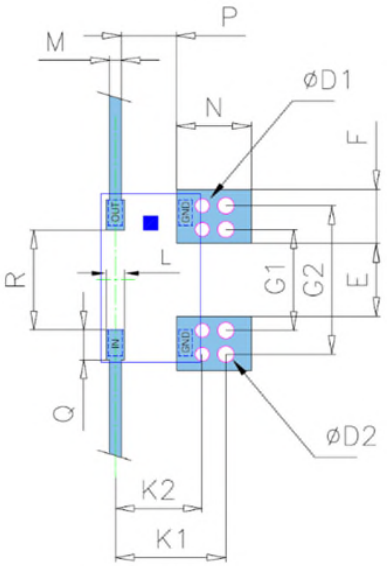
DIMENSIONS (BOTTOM VIEW)



mm (inches)

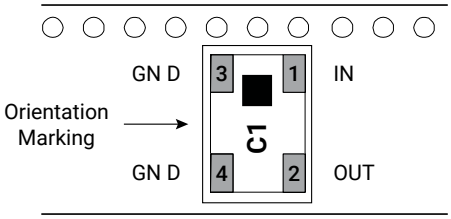
L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

RECOMMENDED PAD LAYOUT



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

TERMINALS (TOP VIEW), IN REEL



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Thin-Film RF/Microwave Filters

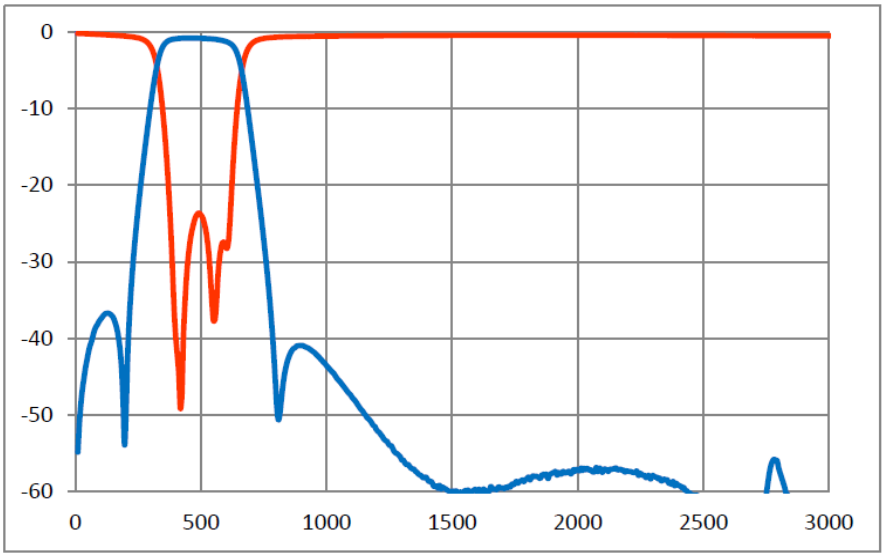
BP2816 8W Band Pass Filter

BP2816A0480SNTR

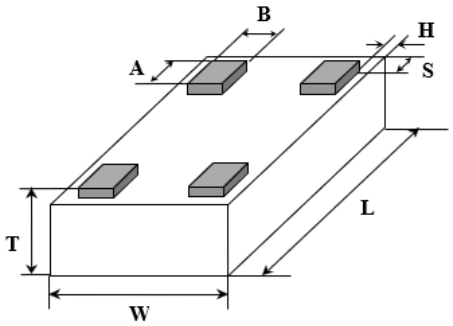
ELECTRICAL CHARACTERISTICS

BP2816A0480SNTR		
Description	**Value**	**Notes**
Center Frequency	480 MHz	
Impedance	50 Ohm	
I. Loss @ 370 - 590 MHz	-1.3 dB	
In-Band Return Loss	-15 dB	
Rejection @ 200 MHz	-40 dB	
Rejection @ 800 - 1500 MHz	-38 dB	
Rejection @ 1501 - 3000 MHz	-45 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



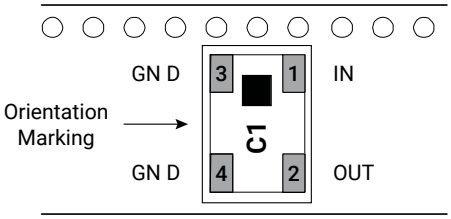
DIMENSIONS (BOTTOM VIEW)



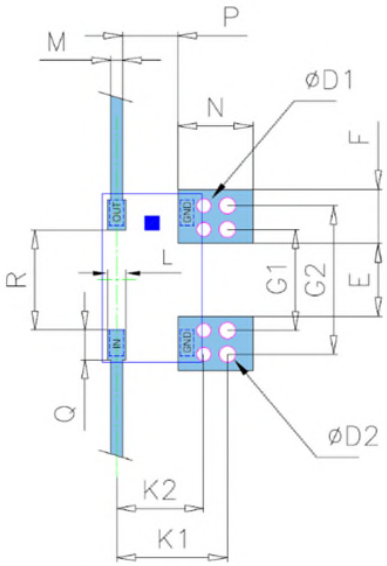
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

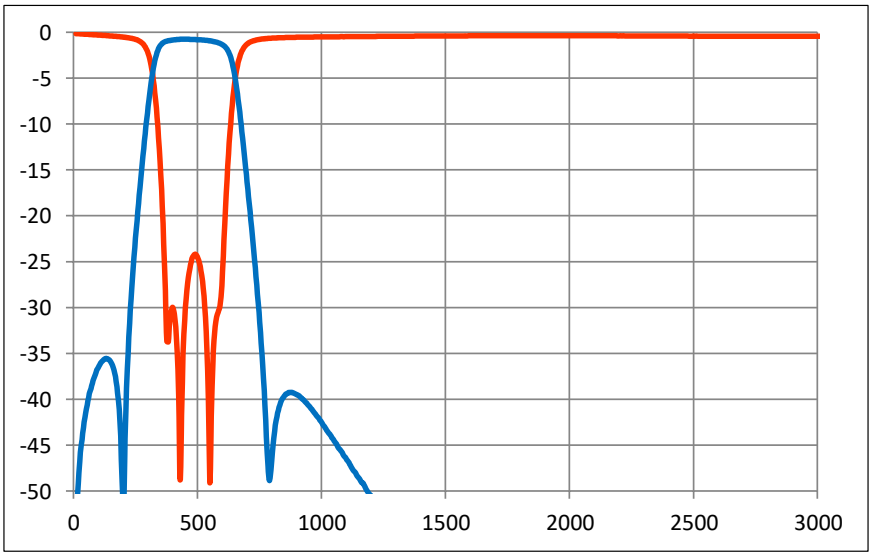
BP2816 8W Band Pass Filter

BP2816A0490SNTR

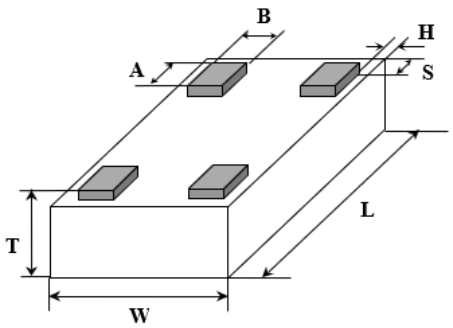
ELECTRICAL CHARACTERISTICS

BP2816A0490SNTR		
Description	**Value**	**Notes**
Center Frequency	490 MHz	
Impedance	50 Ohm	
I. Loss @ 390 - 590 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 200 MHz	-40 dB	
Rejection @ 780 - 1180 MHz	-35 dB	
Rejection @ 1190 - 1770 MHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



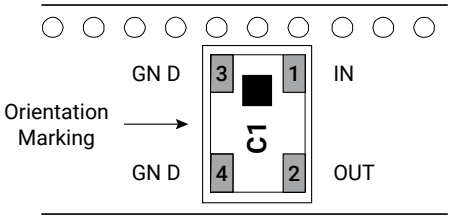
DIMENSIONS (BOTTOM VIEW)



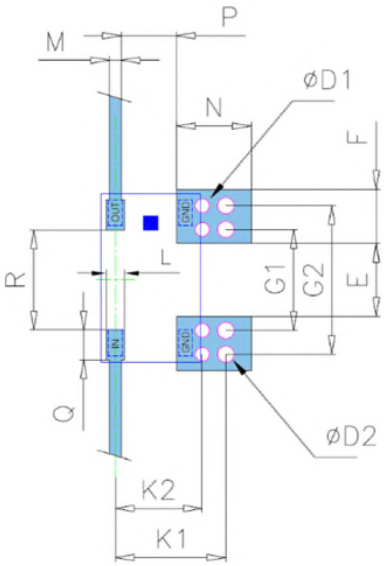
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

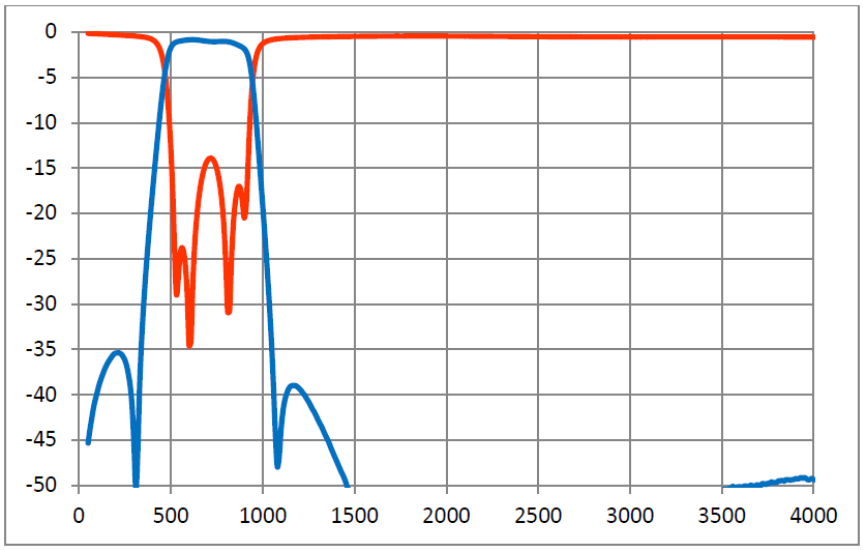
BP2816 8W Band Pass Filter

BP2816A0660SNTR

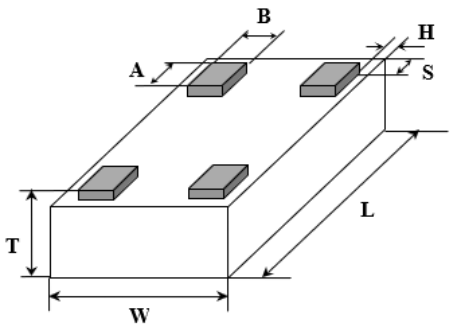
ELECTRICAL CHARACTERISTICS

BP2816A0660SNTR		
Description	**Value**	**Notes**
Center Frequency	660 MHz	
Impedance	50 Ohm	
I. Loss @ 520 - 800 MHz	-1.4 dB	
In-Band Return Loss	-12 dB	
Rejection @ 330 MHz	-40 dB	
Rejection @ 1.1 - 1.68 GHz	-35 dB	
Rejection @ 1.69 - 2.52 GHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



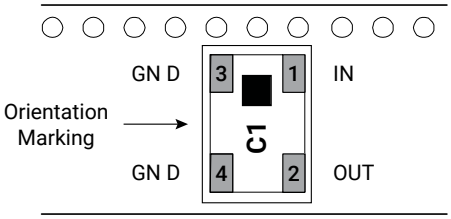
DIMENSIONS (BOTTOM VIEW)



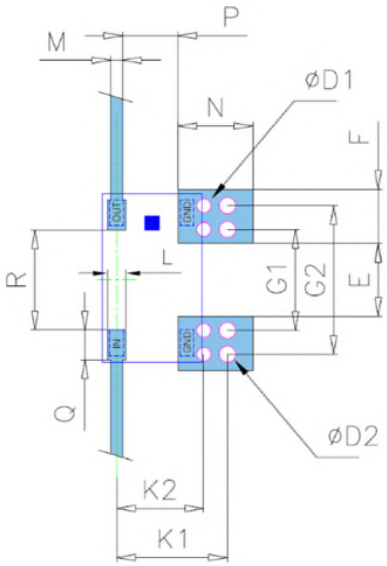
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

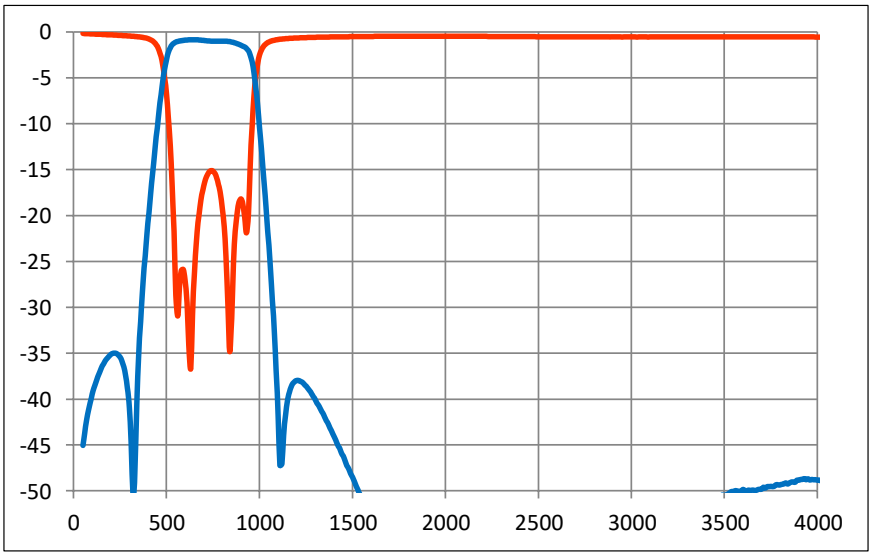
BP2816 8W Band Pass Filter

BP2816A0695SNTR

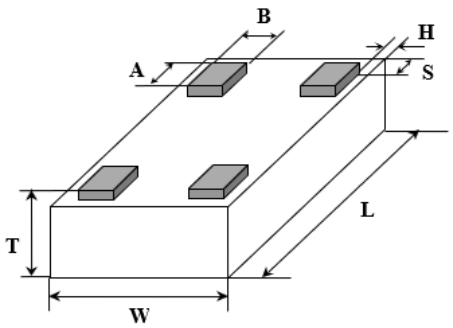
ELECTRICAL CHARACTERISTICS

BP2816A0695SNTR		
Description	**Value**	**Notes**
Center Frequency	695 MHz	
Impedance	50 Ohm	
I. Loss @ 550 - 840 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 330 MHz	-40 dB	
Rejection @ 1.1 - 1.68 GHz	-35 dB	
Rejection @ 1.69 - 2.52 GHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



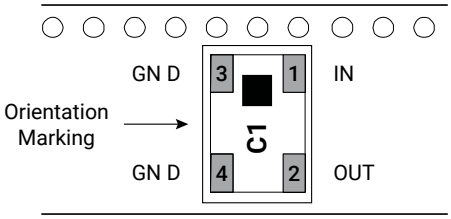
DIMENSIONS (BOTTOM VIEW)



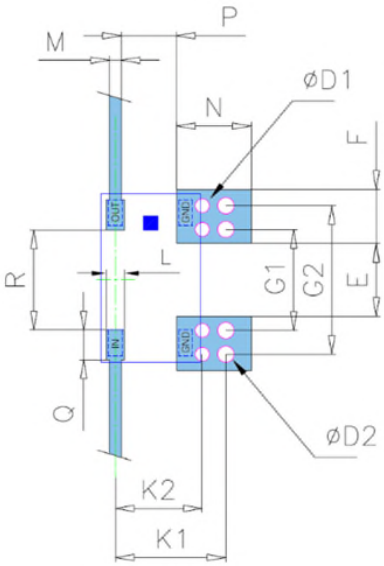
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

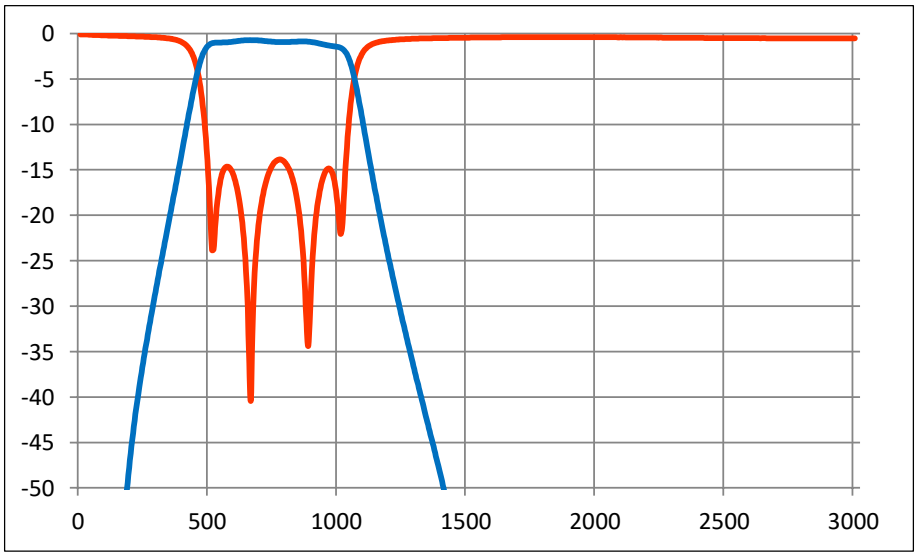
BP2816 8W Band Pass Filter

BP2816A0750SNTR

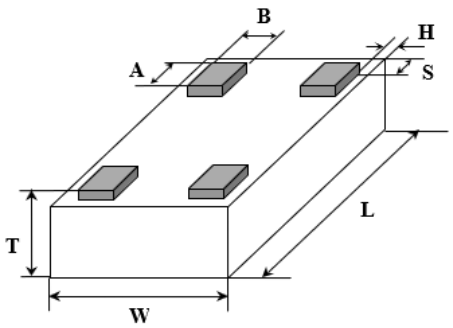
ELECTRICAL CHARACTERISTICS

BP2816A0750SNTR		
Description	**Value**	**Notes**
Center Frequency	750 MHz	
Impedance	50 Ohm	
I. Loss @ 500 - 1000 MHz	-2.0 dB	
In-Band Return Loss	-12 dB	
Rejection @ 260 MHz	-30 dB	
Rejection @ 1500 MHz	-55 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



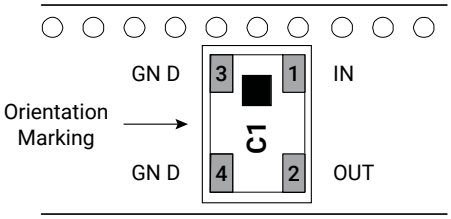
DIMENSIONS (BOTTOM VIEW)



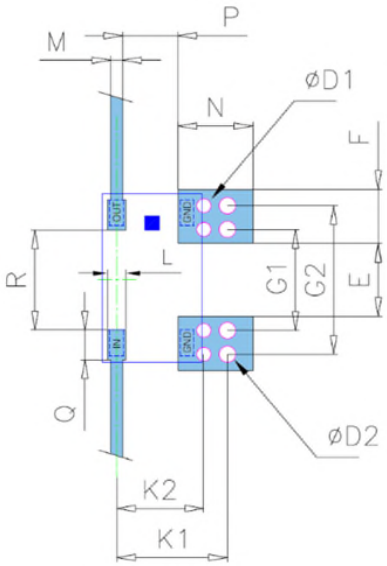
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

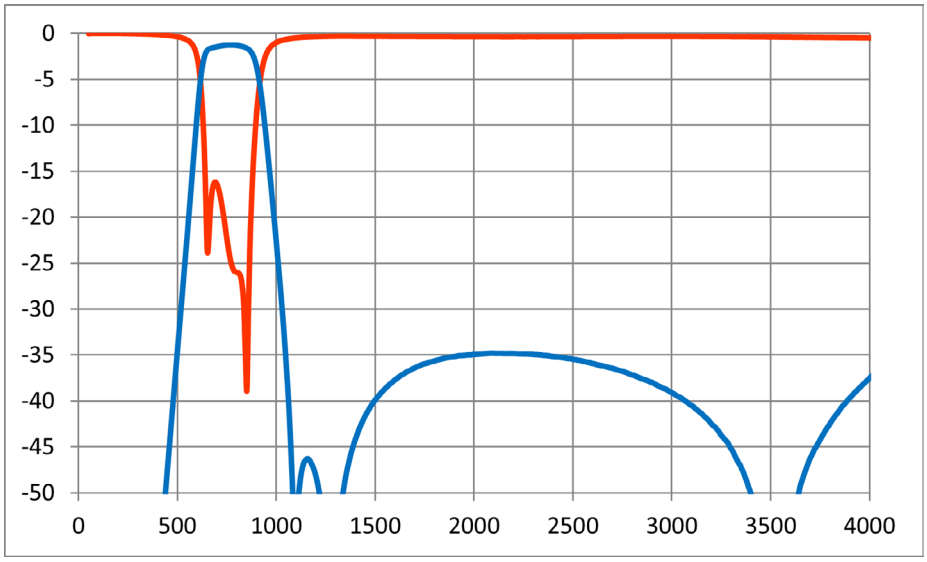
BP2816 8W Band Pass Filter

BP2816A0768SNTR

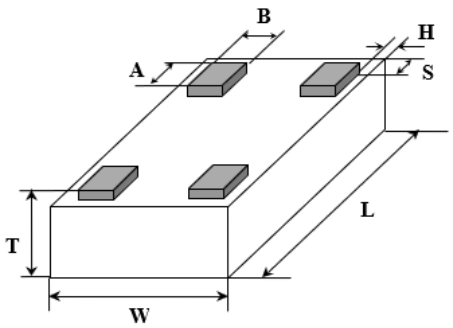
ELECTRICAL CHARACTERISTICS

BP2816A0768SNTR		
Description	**Value**	**Notes**
Center Frequency	768 MHz	
Impedance	50 Ohm	
I. Loss @ 668 - 868 MHz	-2.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 500 MHz	-30 dB	
Rejection @ 1100 - 4000 MHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



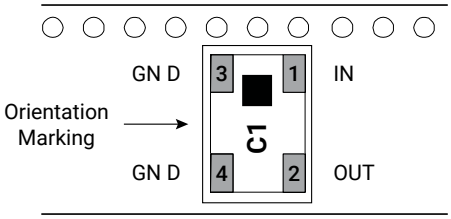
DIMENSIONS (BOTTOM VIEW)



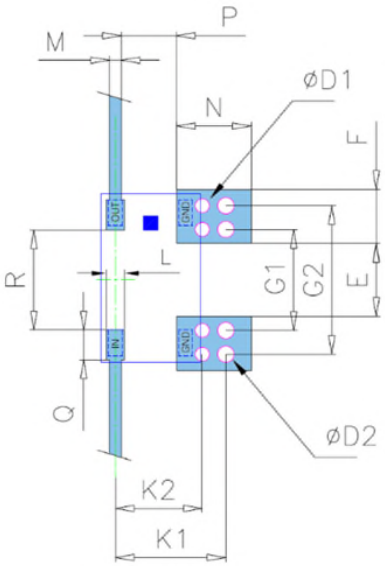
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

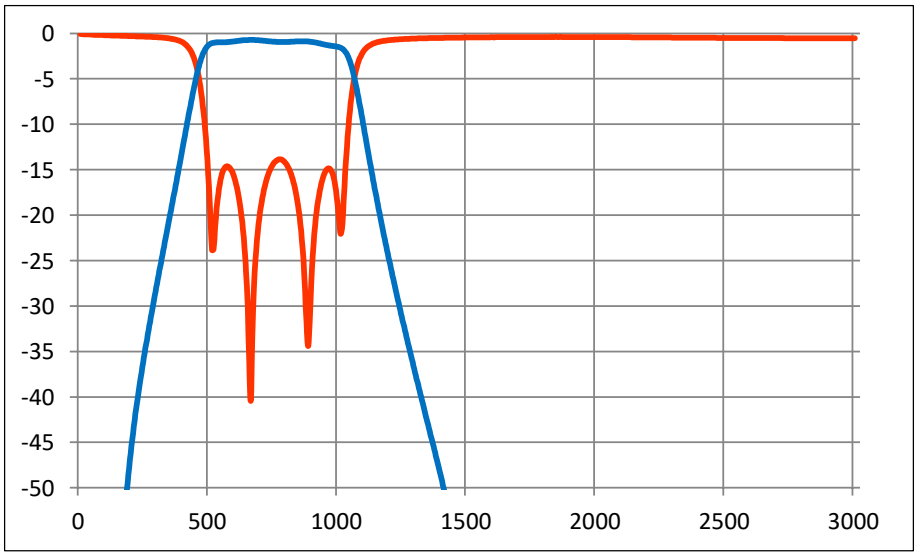
BP2816 8W Band Pass Filter

BP2816A0795SNTR

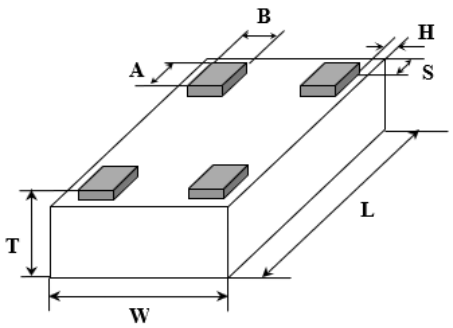
ELECTRICAL CHARACTERISTICS

BP2816A0795SNTR		
Description	**Value**	**Notes**
Center Frequency	795 MHz	
Impedance	50 Ohm	
I. Loss @ 580 - 1010 MHz	-2.0 dB	
In-Band Return Loss	-12 dB	
Rejection @ 300 MHz	-25 dB	
Rejection @ 1300 - 1800 MHz	-35 dB	
Rejection @ 1800 - 3030 MHz	-40 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



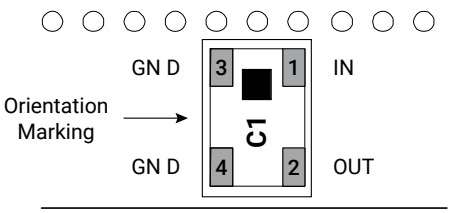
DIMENSIONS (BOTTOM VIEW)



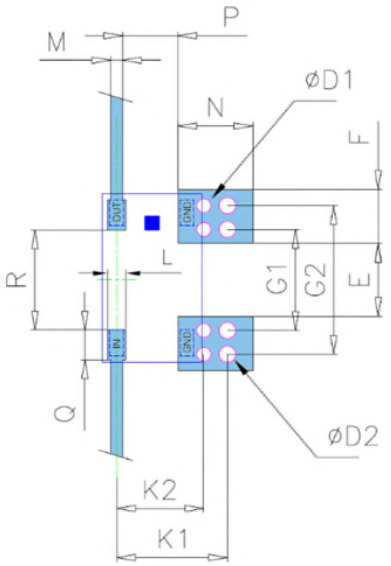
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

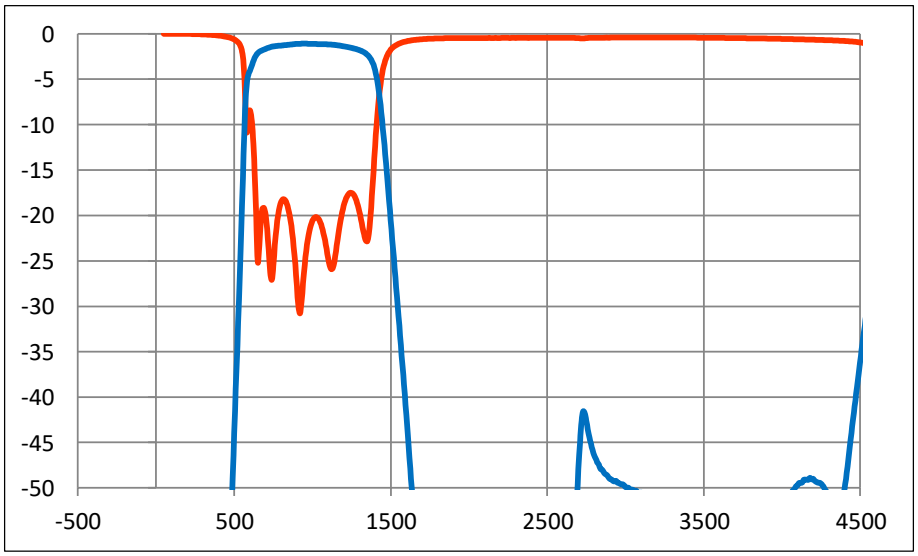
BP2816 8W Band Pass Filter

BP2816A0975SNTR

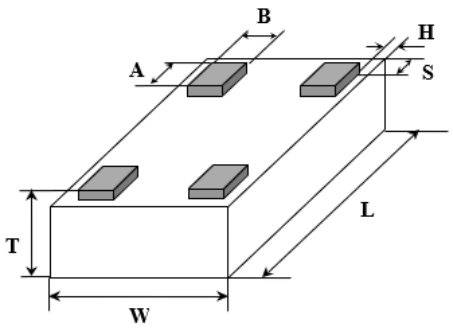
ELECTRICAL CHARACTERISTICS

BP2816A0975SNTR		
Description	**Value**	**Notes**
Center Frequency	975 MHz	
Impedance	50 Ohm	
I. Loss @ 650 - 1300 MHz	-2.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ DC - 500 MHz	-35 dB	
Rejection @ 1700 - 4500 MHz	-35 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



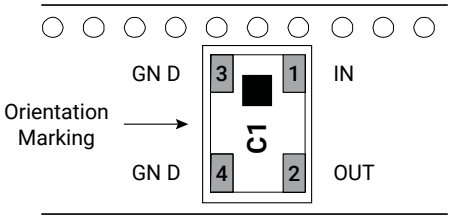
DIMENSIONS (BOTTOM VIEW)



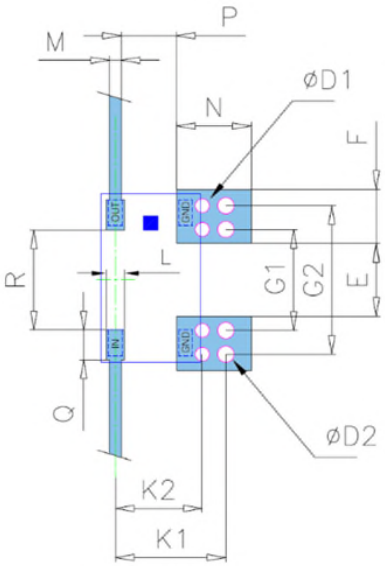
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

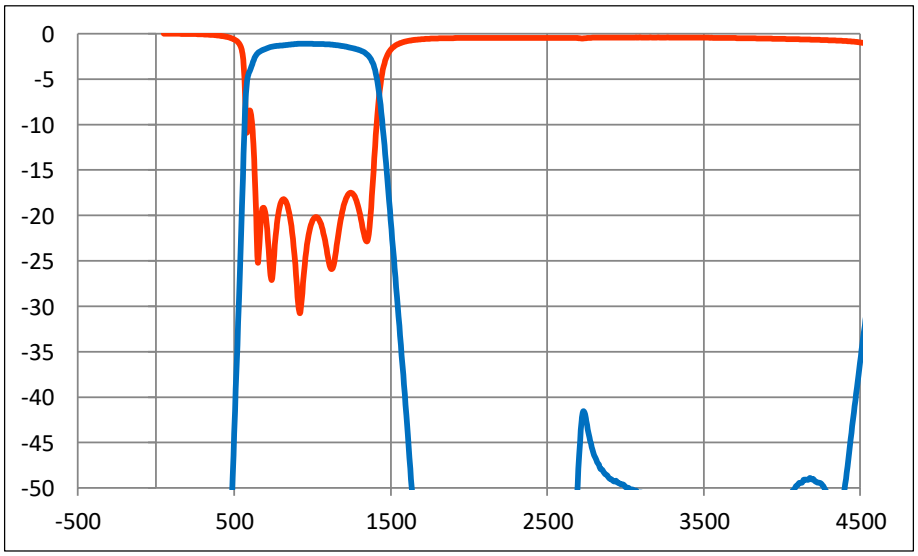
BP2816 8W Band Pass Filter

BP2816A1000SNTR

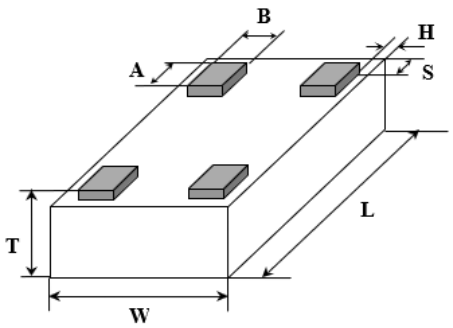
ELECTRICAL CHARACTERISTICS

BP2816A1000SNTR		
Description	**Value**	**Notes**
Center Frequency	1000 MHz	
Impedance	50 Ohm	
I. Loss @ 800 - 1200 MHz	-1.6 dB	
In-Band Return Loss	-15 dB	
Rejection @ DC - 500 MHz	-35 dB	
Rejection @ 1700 - 4000 MHz	-35 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



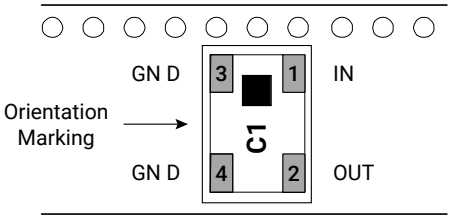
DIMENSIONS (BOTTOM VIEW)



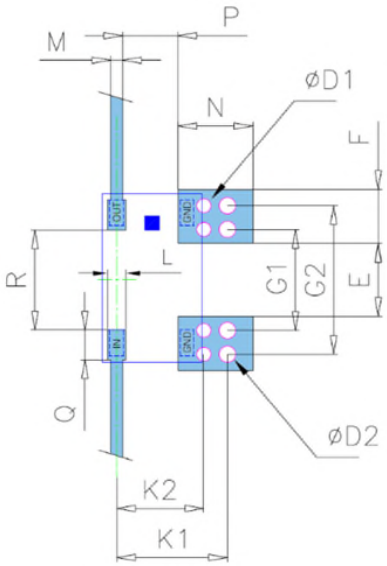
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

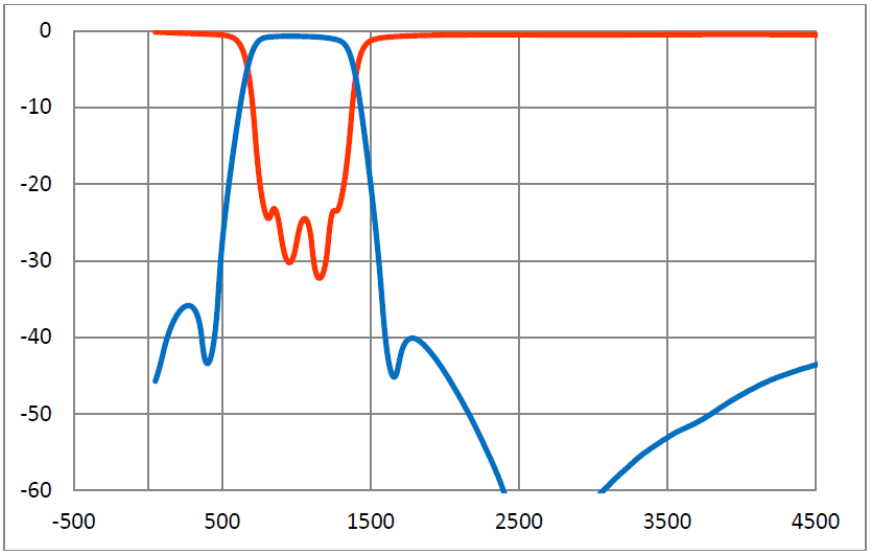
BP2816 8W Band Pass Filter

BP2816A1010SNTR

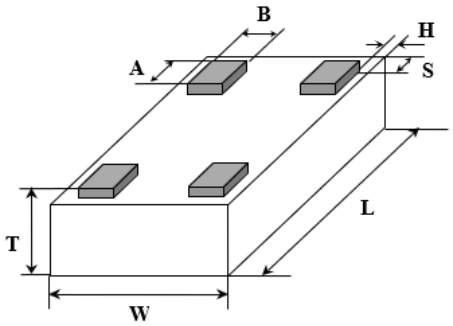
ELECTRICAL CHARACTERISTICS

BP2816A1010SNTR		
Description	**Value**	**Notes**
Center Frequency	1010 MHz	
Impedance	50 Ohm	
I. Loss @ 760 - 1260 MHz	-1.3 dB	
In-Band Return Loss	-15 dB	
Rejection @ 450 MHz	-33 dB	
Rejection @ 1.6 - 2.0 GHz	-35 dB	
Rejection @ 2.0 - 4.5 GHz	-40 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



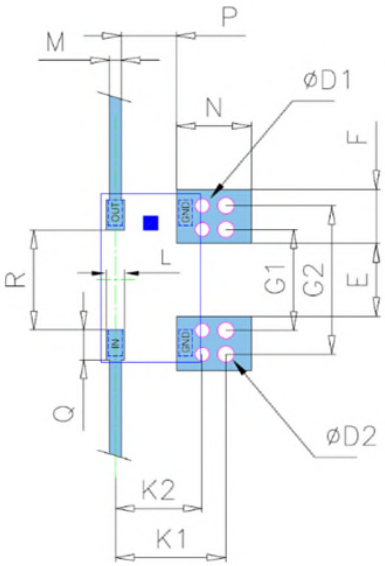
DIMENSIONS (BOTTOM VIEW)



mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

RECOMMENDED PAD LAYOUT

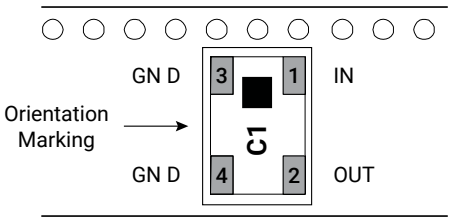


*The recommended distance to the PCB Ground Plane is 0.254mm (0.010")
** PCB: Taconic Orcer RF-35P

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

TERMINALS (TOP VIEW), IN REEL

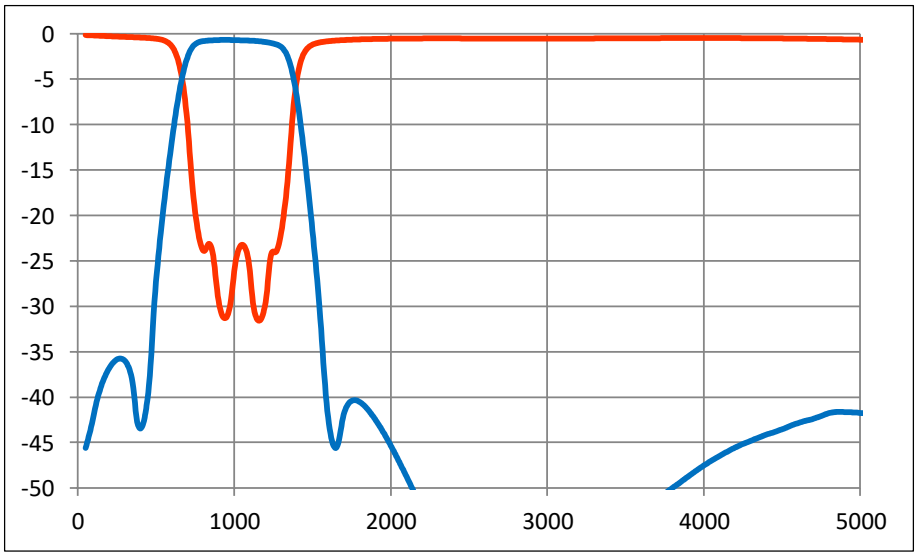


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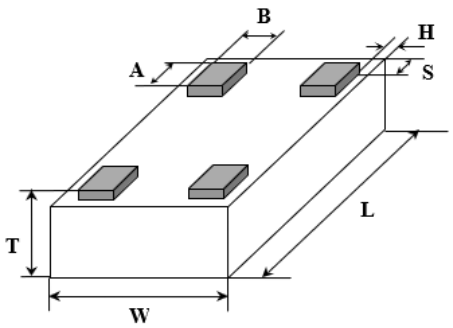
ELECTRICAL CHARACTERISTICS

BP2816A1020SNTR		
Description	**Value**	**Notes**
Center Frequency	1020 MHz	
Impedance	50 Ohm	
I. Loss @ 800 - 1240 MHz	-1.5 dB	
In-Band Return Loss	-15 dB	
Rejection @ 430 MHz	-40 dB	
Rejection @ 1.6 - 2.48 GHz	-35 dB	
Rejection @ 2.49 - 3.72 GHz	-37 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



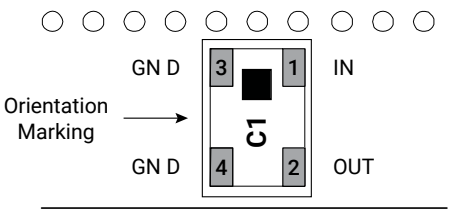
DIMENSIONS (BOTTOM VIEW)



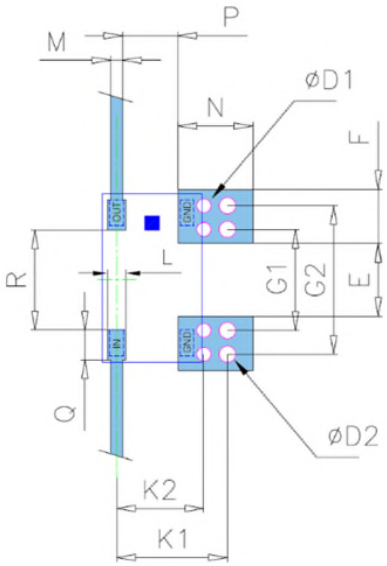
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

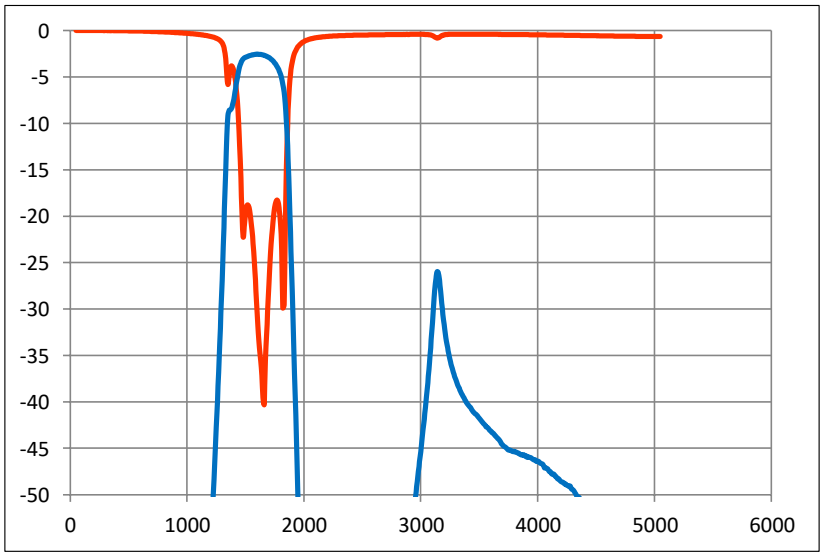
BP2816 8W Band Pass Filter

BP2816A1625SNTR

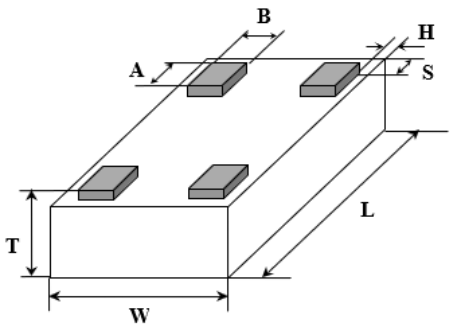
ELECTRICAL CHARACTERISTICS

BP2816A1625SNTR		
Description	**Value**	**Notes**
Center Frequency	1625 MHz	
Impedance	50 Ohm	
I. Loss @ 1500 - 1750 MHz	-4.0 dB	
In-Band Return Loss	-12 dB	
Rejection @ 1200 MHz	-50 dB	
Rejection @ 2000 MHz	-50 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



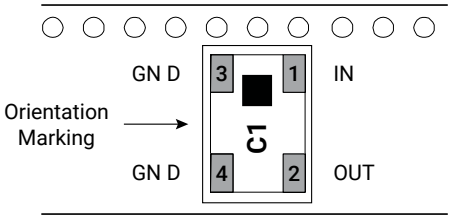
DIMENSIONS (BOTTOM VIEW)



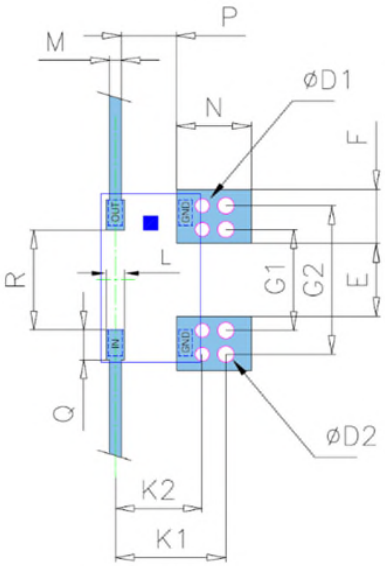
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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Thin-Film RF/Microwave Filters

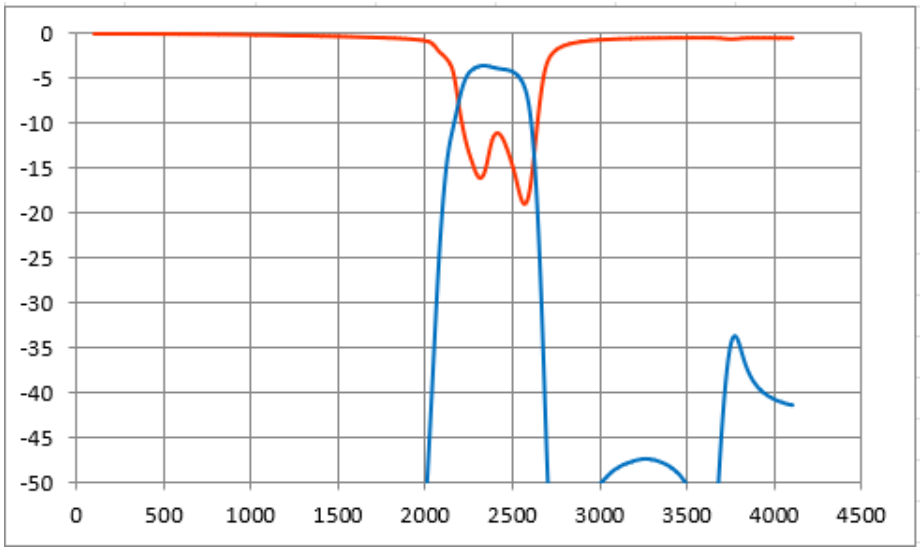
BP2816 8W Band Pass Filter

BP2816A2375SNTR

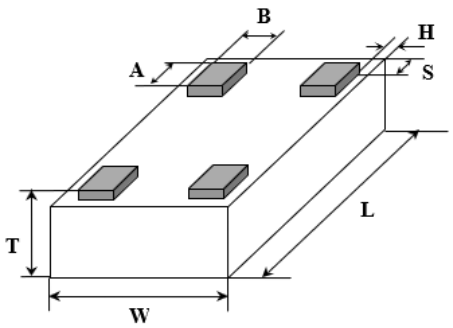
ELECTRICAL CHARACTERISTICS

BP2816A2375SNTR		
Description	**Value**	**Notes**
Center Frequency	2375 MHz	
Impedance	50 Ohm	
I. Loss @ 2250 - 2500 MHz	-5 dB	
In-Band Return Loss	-12 dB	
Rejection @ 2000 MHz	-48 dB	
Rejection @ 2750 MHz	-60 dB	
Power Handling (CW)	8 Watt	
Operating Temperature Range	-40 to +85 ℃	
Package	2816	

TYPICAL ELECTRICAL PERFORMANCE



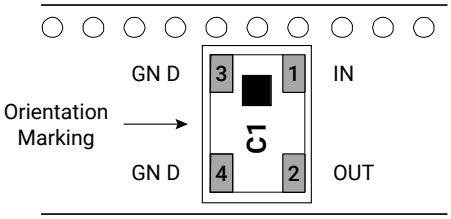
DIMENSIONS (BOTTOM VIEW)



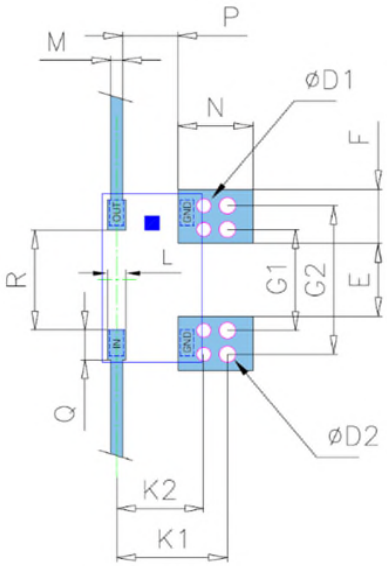
mm (inches)

L	7.2±0.3 (0.28±0.01)
W	4.2±0.2 (0.165±0.008)
T	1.2 max -0.047
A	1.1±0.1 (0.043±0.004)
B	0.6±0.1 (0.024±0.004)
S	0.28±0.05 (0.01±0.002)
H	0.3±0.05 (0.01±0.002)

TERMINALS (TOP VIEW), IN REEL



RECOMMENDED PAD LAYOUT



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

mm (inches)

M	0.5±0.025 (0.02±0.001)
R	4.26±0.04 (0.17±0.002)
E	3.1±0.04 (0.12±0.002)
K1	4.7±0.05 (0.19±0.002)
K2	3.7±0.05 (0.15±0.002)
G1	4.3±0.05 (0.17±0.002)
G2	6.32±0.05 (0.25±0.002)
P	2.35±0.04 (0.09±0.002)
N	3.18±0.05 (0.13±0.002)
F	2.3±0.05 (0.13±0.002)
øD1	ø0.6±0.05 (0.02±0.002)
øD2	ø0.7±0.05 (0.03±0.002)
L	0.8±0.04 (0.031±0.002)
Q	1.27±0.04 (0.05±0.002)

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