

Surface Mount

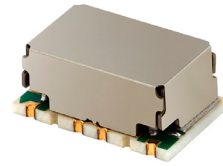
Bandpass Filter

BPF-AS1600-75+

75Ω 950 to 2250 MHz

The Big Deal

- Wide bandwidth
- Low insertion loss
- Miniature shielded package



Generic photo used for illustration purposes only

CASE STYLE: TK2678

Product Overview

The BPF-AS1600-75+ is a 75Ω band pass filter fabricated using SMT technology centered at 1600 MHz. The band-pass filter is designed in a very small (0.433" x 0.276" x 0.197") shielded package that covers 1600 MHz ± 650 MHz bandwidth. They use high Q capacitors and inductors for low insertion loss and has consistent performance across temperature & repeatable performance across lots.

Key Features

Feature	Advantages
Low insertion loss	Can be used in high performance applications like L-band satellite communication systems.
Small form factor	This filter can be used in dense layout applications.
Shielded case	Reduced interference with and from the surrounding components.

Notes

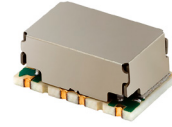
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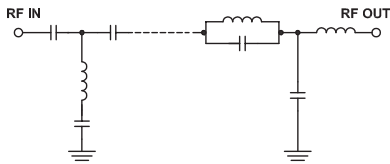
Features

- Wide bandwidth
- Low passband IL
- Miniature shielded package

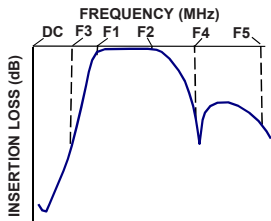
Applications

- L-Band satellite applications
- Telecommunication & broadband wireless system
- Base station controllers
- Weather instruments / Radar networks

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Center Frequency	—	—	1600	—	MHz	
	Insertion Loss	F1-F2	950-2250	—	1.0	1.6	dB
	VSWR	F1-F2	950-2250	—	1.6	2.0	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-480	20	30	—	dB
	VSWR	DC-F3	DC-480	—	30	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	3000-3500	16	20	—	dB
	VSWR	F4-F5	3000-3500	—	10	—	:1

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W

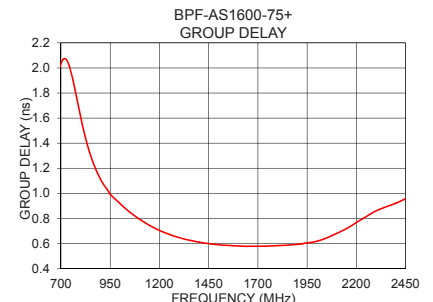
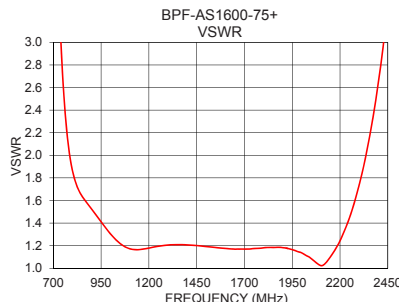
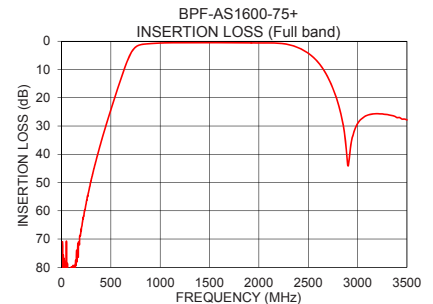
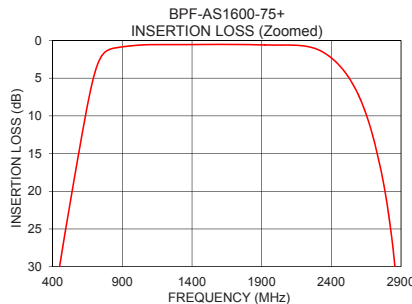
Permanent damage may occur if any of these limits are exceeded.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
10	70.96	354.40	950	0.99
250	57.52	356.60	1000	0.92
448	30.12	83.21	1050	0.85
480	26.49	66.98	1100	0.79
538	20.14	44.08	1150	0.74
650	8.53	12.06	1200	0.70
724	3.07	3.69	1250	0.67
950	0.74	1.41	1300	0.65
1600	0.53	1.18	1350	0.63
2250	0.89	1.45	1450	0.60
2445	3.07	3.25	1450	0.60
2650	9.81	8.71	1500	0.59
2700	12.85	9.80	1550	0.58
2790	20.57	10.75	1600	0.58
2840	27.14	10.94	1700	0.58
2860	30.80	11.14	1800	0.58
3000	29.14	14.13	1900	0.59
3200	25.64	23.45	2000	0.62
3400	27.04	27.90	2100	0.68
3500	27.85	26.90	2250	0.81

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



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