

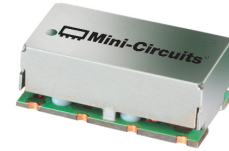
Surface Mount Bandpass Filter

SXBP-69+

50Ω 61.9 to 76.5 MHz

The Big Deal

- Narrow bandwidth
- High Rejection
- Good VSWR
- Miniature shielded package



Generic photo used for illustration purposes only
CASE STYLE: HF1139

Product Overview

SXBP-69+ is a 50Ω bandpass filter in a shielded package fabricated using SMT technology. This bandpass filter covers from 61.9 to 76.5 MHz. This filter build with high Q capacitors and wire welded inductors for high reliability. This filter has a narrow bandwidth and sharper cut-off and pass the IF frequencies.

Key Features

Feature	Advantages
Low insertion loss	Can be used in telecommunication and broadband wireless application.
Good rejection	This enables the filter attenuate spurious signals and reject harmonics for broad frequency band
Shielded package	The small surface mount package enables the SXBP-69+ to used in compact design

Notes

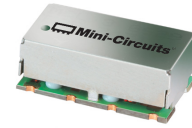
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Features

- Narrow bandwidth
- Sharper roll off
- Miniature shielded package

Applications

- Telecommunication and broadband wireless
- Harmonic rejection
- IF signal processing

Electrical Specifications at 25°C

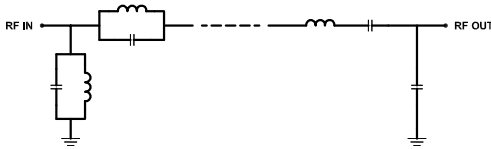
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Center Frequency	—	—	69	—	MHz	
	Insertion Loss	F1-F2	61.9-76.5	—	1.90	3.50	dB
	VSWR	F1-F2	61.9-76.5	—	1.57	2.10	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-55	20	26	—	dB
	VSWR	DC-F3	DC-55	—	20	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	87-3200	20	27	—	dB
	VSWR	F4-F5	87-3200	—	20	—	:1

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W

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

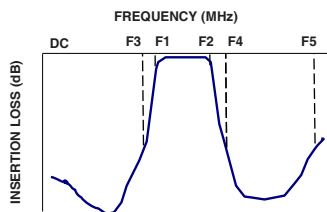
Functional Schematic



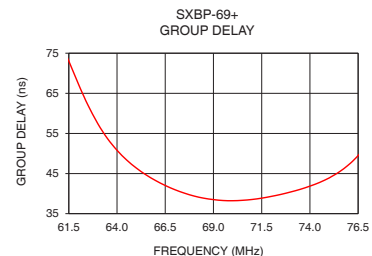
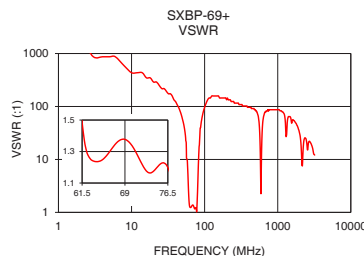
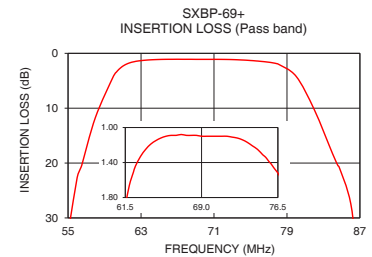
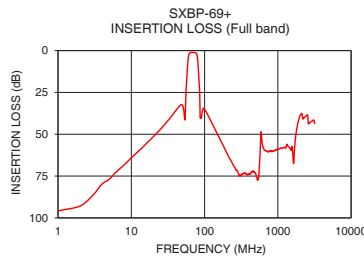
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1.0	95.77	1737.18	61.9	68.46
26.0	46.16	217.15	62.5	62.00
55.0	32.07	25.19	63.0	57.47
55.2	30.71	22.65	64.0	50.81
56.4	20.85	11.82	65.0	46.38
58.0	11.69	9.43	66.0	43.26
60.5	3.05	2.18	67.0	40.98
61.9	1.66	1.37	68.0	39.39
69.0	1.10	1.38	69.0	38.51
76.5	1.52	1.20	70.0	38.23
80.0	4.18	2.45	71.0	38.54
82.0	10.28	7.60	72.0	39.31
84.6	20.51	18.44	72.5	39.81
86.0	27.43	28.49	73.0	40.41
87.0	40.33	39.32	73.5	41.07
300.0	75.10	108.58	74.0	41.87
595.0	49.70	5.30	74.5	42.78
1650.0	67.38	54.29	75.0	43.91
2150.0	38.23	7.76	75.5	45.35
3200.0	43.44	12.09	76.5	49.48

Typical Frequency Response



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



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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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