Bandpass Filter

ZBPF-98-S+

 50Ω 88 to 108 MHz

The Big Deal

- Fast roll-off with excellent passband insertion loss
- Compact connectorized package



Generic photo used for illustration purposes only CASE STYLE: FM587-1

Product Overview

ZBPF-98-S+ is a 50Ω bandpass filter into a rugged shielded case of (2.0" x 1.24" x 0.75") size. The passband range for this is 88 MHz to 108 MHz. The model has excellent passband IL and fast roll-off. This will find its application in FM transmission and reception systems.

Key Features

Feature	Advantages
Fast roll-off with excellent pass- band insertion loss	Low insertion loss helps in achieving good dynamic range. Fast roll-off will attenuate frequencies closer to the passband with good rejection.
Connectorized package	The connectorized packages are easily to interface with other devices and well suited for test set-ups.

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warnanty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

from bandedge

Applications

• Lab Use

Rugged shielded case

Bandpass Filter

 50Ω 88 to 108 MHz

• Fast roll-off with rejection at >10dB at 9 MHz

· Excellent passband IL of 1 dB typ.

• FM Transmission and Reception • Harmonic and sub-harmonic Rejection

ZBPF-98-S+



Generic photo used for illustration purposes only

CASE STYLE: FM587-1 Connectors Model SMA-M/F ZBPF-98-S+

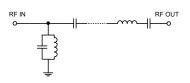
Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss Return Loss	F1-F2 F1-F2	88 - 108 88 - 108	— 11.7	1.0 17.7	1.5 -	dB dB
Stop Band, Lower	Insertion Loss	DC-F3 F3-F4 F5	DC - 55 55 - 66 79	18 13 —	_ _ 10	_ _ _	dB dB dB
Stop Band, Upper	Insertion Loss	F6 F6-F7 F7-F8 F8-F9	117 143 - 175 175 - 400 400 - 1000	13 18 —	10 — — 40	_ _ _	dB dB dB dB

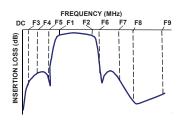
Maximum Ratings						
Operating Temperature	-40°C to 85°C					
Storage Temperature	-55°C to 100°C					
RF Power Input	0.25W					

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

Functional Schematic



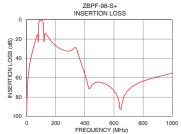
Typical Frequency Response

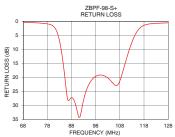


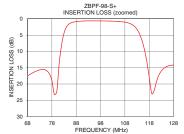
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

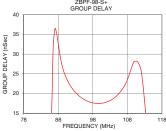
Typical Performance Data at 25°C

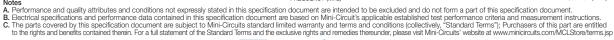
Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1	94.17	0.01	88	32.45
10	59.50	0.02	89	27.34
40	32.76	0.07	90	24.55
55	24.37	0.13	91	22.67
66	18.49	0.27	92	21.27
79	23.24	1.08	93	20.21
84	2.48	11.44	94	19.37
88	0.86	27.23	95	18.72
90	0.71	30.61	96	18.21
98	0.64	19.63	97	17.84
100	0.67	19.13	98	17.59
108	1.02	21.27	99	17.46
113	3.25	7.46	100	17.45
117	13.14	1.89	101	17.56
143	16.87	0.28	102	17.81
175	23.35	0.15	103	18.19
400	56.26	0.26	104	18.74
500	64.68	0.14	105	19.48
800	63.64	0.15	106	20.45
1000	55.37	0.17	108	23.52







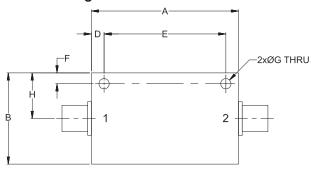




Coaxial Connections

PORT - 1	SMA-Male
PORT - 2	SMA-Female

Outline Drawing





Outline Dimensions (inch mm)

Wt.	J	Н	G	F	E	D	С	В	Α
grams	.38	.62	.140	.15	1.656	.17	.75	1.24	2.00
57	9.65	15 75	3 56	3.81	42.06	4 32	19.05	31.50	50.80

Note: Please refer to case style drawing for details

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please vist Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

