

Band Stop Filter

NSBP-108+

50Ω 88 to 108 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C
Permanent damage may occur if any of these limits are exceeded.	

Features

- High FM Frequency Rejection
- Good Return Loss, 20 dB Typ @ Pass Band

Application

- FM Radio Rejection
- Transmitters/Receivers
- Lab Use



Generic photo used for illustration purposes only

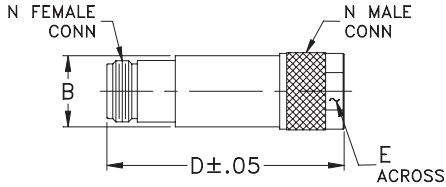
CASE STYLE: FF967

Connectors	Model
N-type	NSBP-108+

+RoHS Compliant

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

Outline Drawing

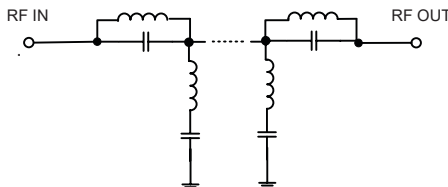


Outline Dimensions (inch/mm)

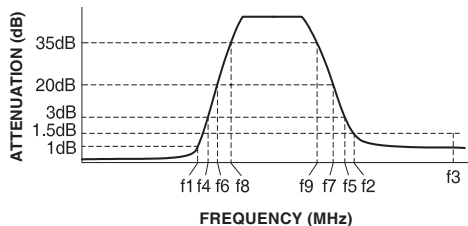
A	B	C	D	E	Wt.
--	.71	--	2.43	.718	grams
--	18.03	--	61.72	18.24	73

Note: Please refer to case style drawing for details

Functional Schematic



Typical Frequency Response



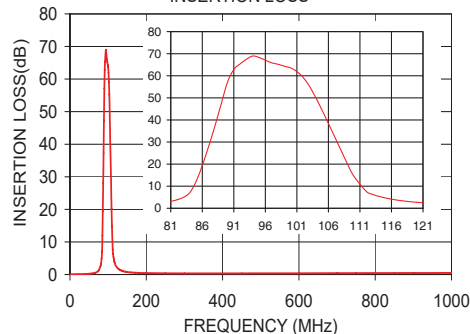
Band Stop Filter Electrical Specifications (T_{AMB} = 25°C)

MODEL NO.	STOPBANDS (MHz)		Loss 3dB Typ. f4, f5	PASSBANDS (MHz)		VSWR (:1)	
	(Loss > 20dB) f6-f7	(Loss > 35dB) f8-f9		Loss < 1dB f1	Loss < 1.5dB f2,f3	Stopband Typ.	Passband Typ.
NSBP-108+	88-108	89-105	81 & 120	65	140-1000	3.4	1.3

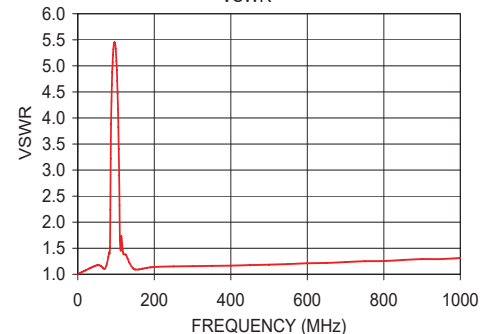
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.02	1.01
65	0.48	1.13
70	0.72	1.10
75	1.21	1.18
81	3.11	1.39
83	4.96	1.40
87	27.99	3.88
88	37.25	4.32
89	47.24	4.64
90	57.09	4.88
105	44.40	4.17
108	26.23	2.90
109	20.24	2.32
116	4.13	1.56
120	2.72	1.38
140	1.00	1.16
150	0.76	1.09
300	0.34	1.16
600	0.37	1.21
1000	0.49	1.31

NSBP-108+
INSERTION LOSS



NSBP-108+
VSWR



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 visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial Band Stop Filter

NSBP-108+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
1.00	0.02	46.06
65.00	0.48	24.29
70.00	0.72	26.44
75.00	1.21	21.66
81.00	3.11	15.75
83.00	4.96	15.56
87.00	27.99	4.58
88.00	37.25	4.10
89.00	47.24	3.80
90.00	57.09	3.61
105.00	44.40	4.25
108.00	26.23	6.25
109.00	20.24	8.01
116.00	4.13	13.20
120.00	2.72	15.94
140.00	1.00	22.61
150.00	0.76	27.32
300.00	0.34	22.61
600.00	0.37	20.44
1000.00	0.49	17.45

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NSBP-108+
060827
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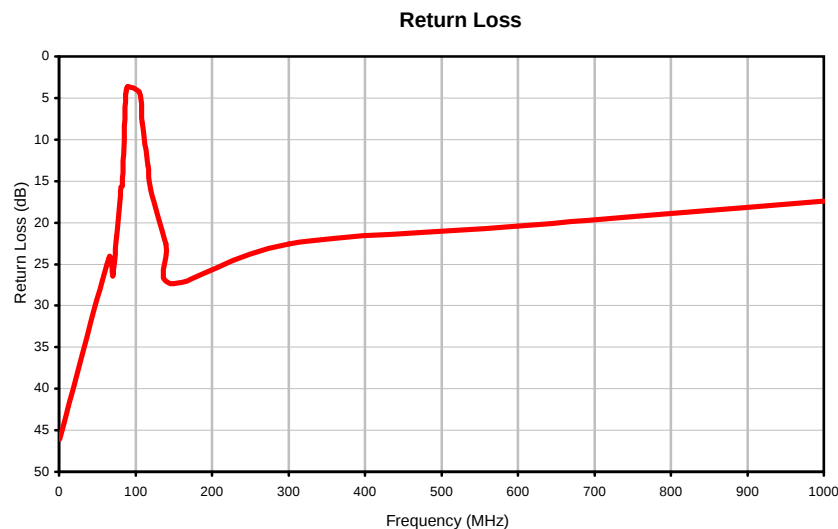
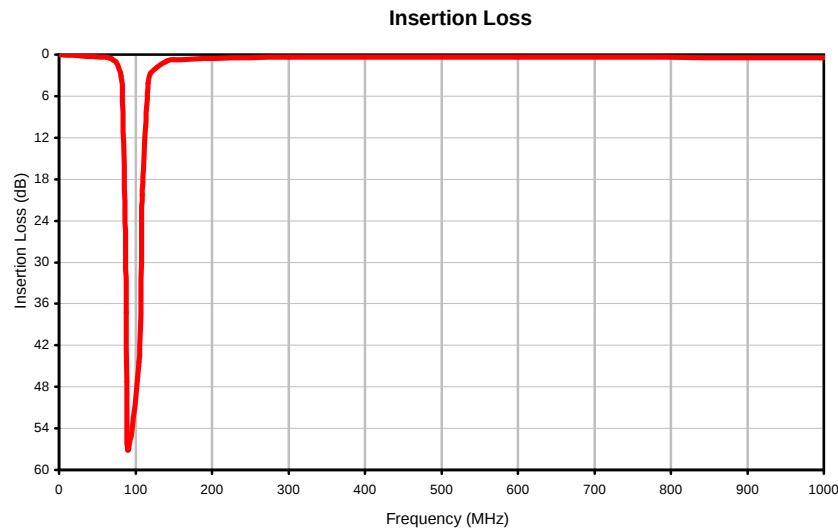


Patent Pending

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Typical Performance Curves



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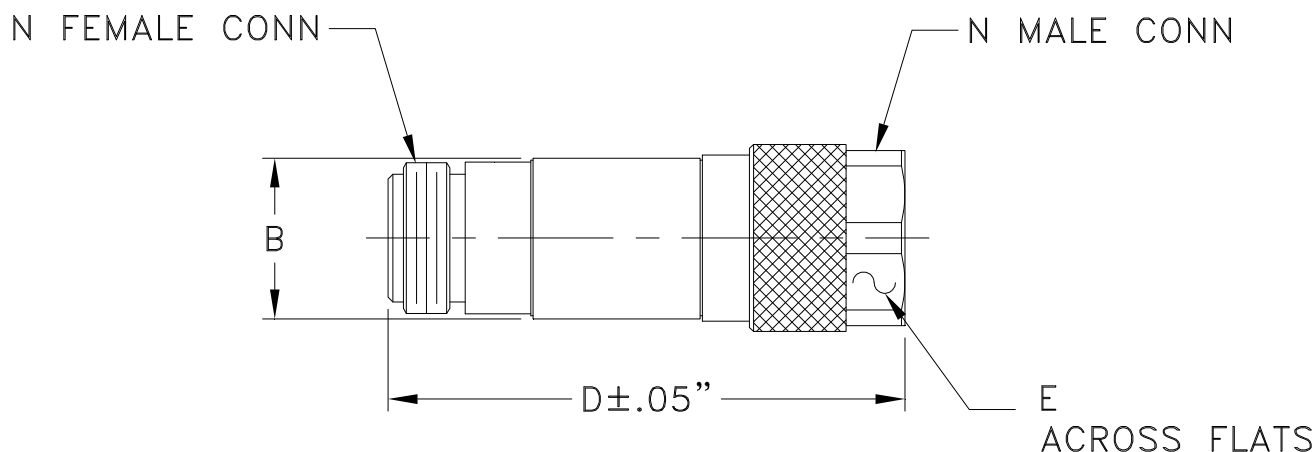
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Case Style

FF

Outline Dimensions

FF967



CASE #.	A	B	C	D	E	WT GRAMS
FF967	--	.71 (18.03)	--	2.43 (61.72)	.718 (18.24)	73.0

Dimensions are in inches (mm). Tolerances: 2Pl. +.05/-.04; 3Pl. ± .030

Notes:

1. Case material: Brass.
2. Case finish: Nickel plate.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I