

Band Pass Filter

VBFZ-EDR8454U

Coaxial SMA

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



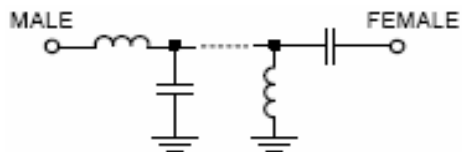
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CASE STYLE : FF1145

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2 dB)	2250		2750	MHz
Center Frequency		2500		MHz
Stopband Low Band (Loss > 20 dB)	DC		1530	MHz
High Band (Loss > 20 dB)	4000		9000	MHz
Passband VSWR		1.7		(:1)
Stopband VSWR		18		(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

Functional Schematic



Coaxial SMA Band Pass Filter

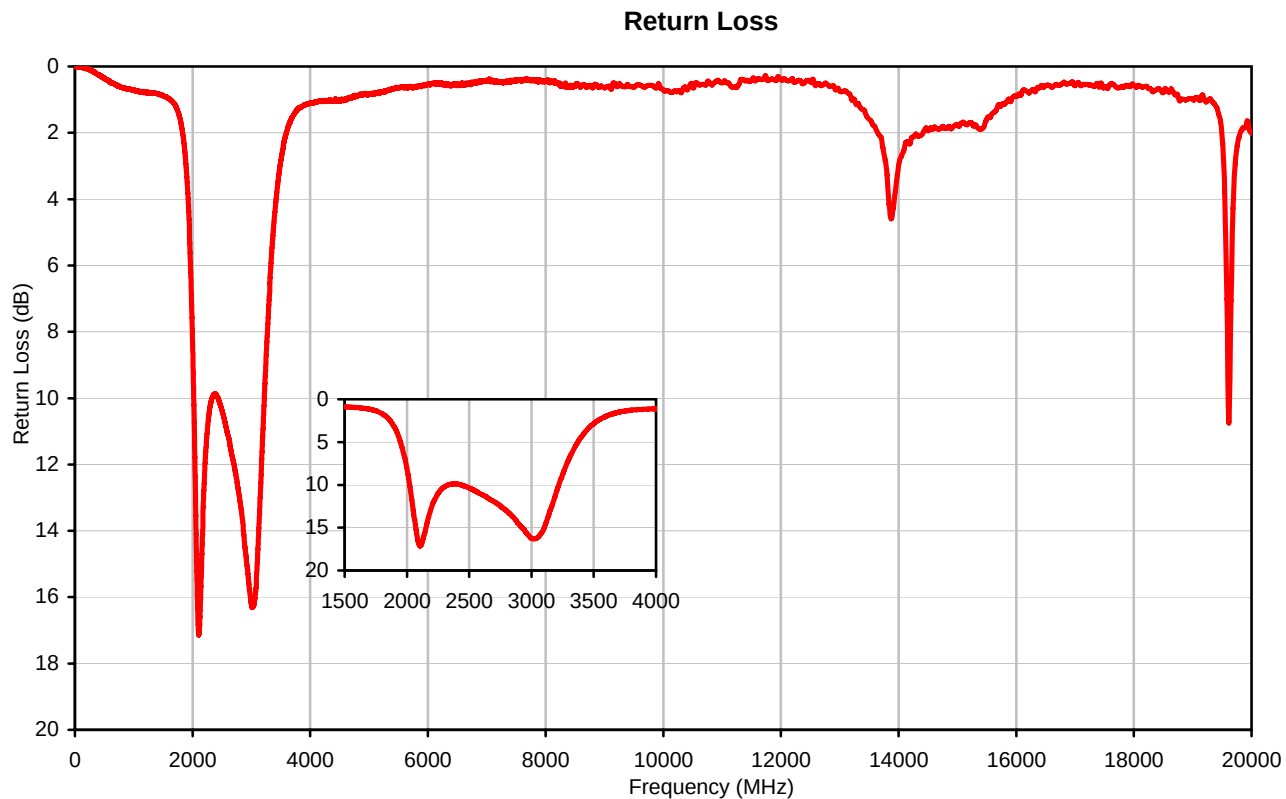
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Typical Performance Data

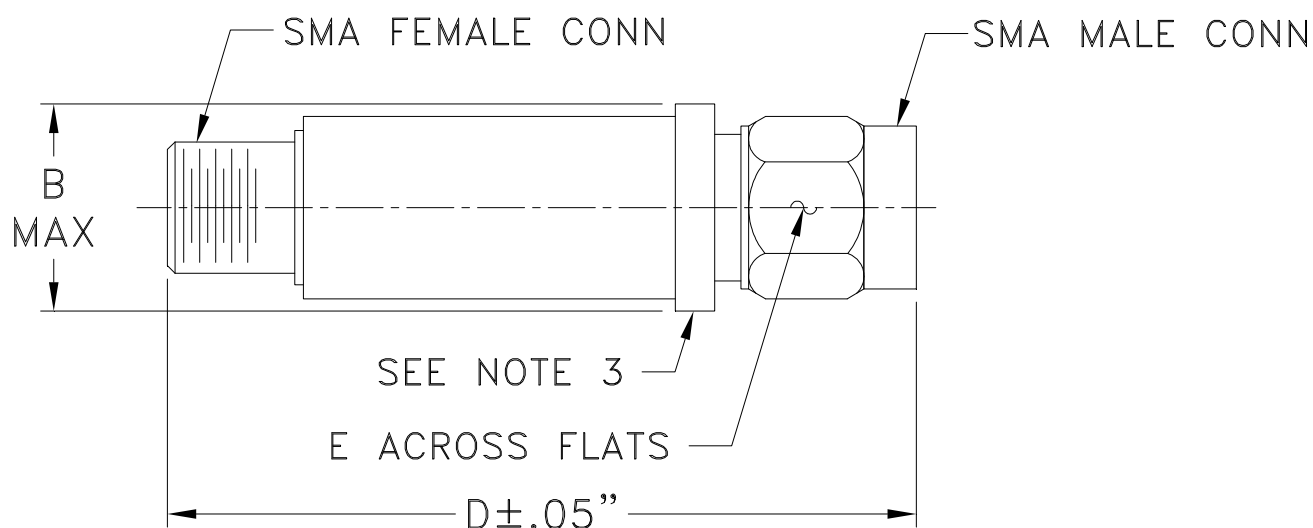
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
50	71.22	0.01
100	68.27	0.01
200	65.82	0.06
300	63.40	0.14
400	60.50	0.26
500	61.33	0.33
600	62.88	0.47
700	62.13	0.54
800	70.31	0.64
900	62.65	0.68
1000	53.30	0.72
1100	47.01	0.75
1200	41.26	0.78
1300	35.89	0.80
1400	31.00	0.82
1500	26.22	0.88
1530	24.64	0.91
1600	21.34	0.97
1700	16.42	1.16
1800	12.46	1.52
1900	6.55	3.34
2000	3.15	7.95
2100	1.80	17.01
2200	1.68	12.57
2250	1.73	11.01
2300	1.75	10.23
2400	1.72	9.90
2500	1.64	10.37
2600	1.55	11.12
2700	1.48	11.96
2750	1.45	12.47
2800	1.42	13.02
3000	1.40	16.23
3200	2.03	10.92
3500	7.29	2.83
3600	10.30	1.95
3700	13.61	1.51
4000	27.81	1.11
5000	44.00	0.83
6000	48.05	0.54
7000	37.81	0.42
8000	35.36	0.44
8400	32.12	0.61
9000	26.91	0.65
10000	15.50	0.68
11000	21.42	0.49
12000	29.71	0.36
13000	20.27	0.74
14000	8.48	2.84
15000	10.30	1.74
16000	14.60	0.91
17000	23.34	0.58
18000	27.53	0.57
19000	28.25	1.01
20000	15.20	2.02



Typical Performance Curves



Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF1145	--	.410 (10.41)	--	1.91 (48.51)	.312 (7.92)	11.8

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

Notes:

1. Case material: Stainless steel.
2. Case finish: Gold plated.
3. Round Flange may have .312 Across Flats in some models.



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



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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