

Engineering Development Model

Band Pass Filter

VBFZ-EDR8450U

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.



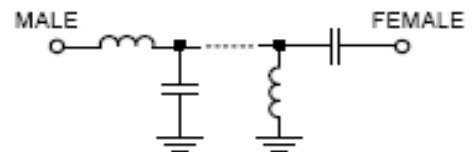
Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : FF1145

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Passband (Loss < 2 dB)	1800		2250	MHz
Center Frequency		2025		MHz
Stopband Low Band (Loss > 20 dB)	DC		1290	MHz
High Band (Loss > 20 dB)	2900		18500	MHz
Passband VSWR		1.4		(: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

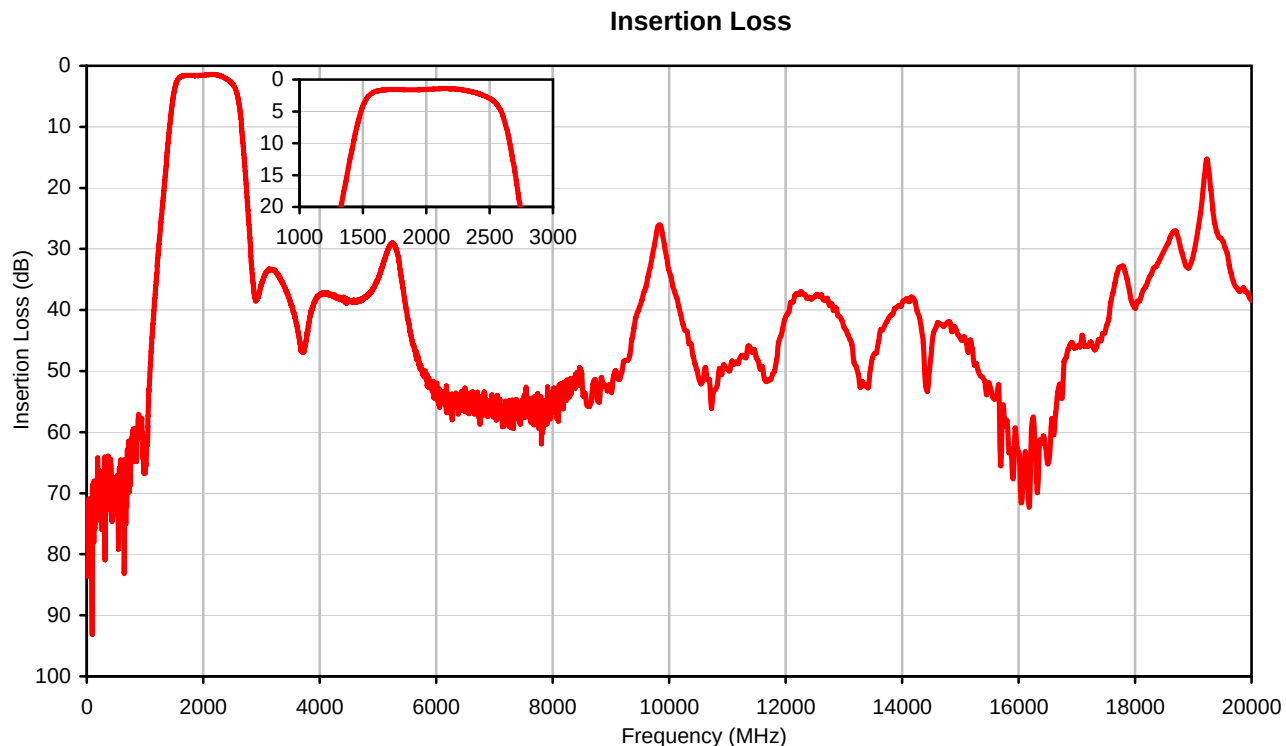
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Typical Performance Data

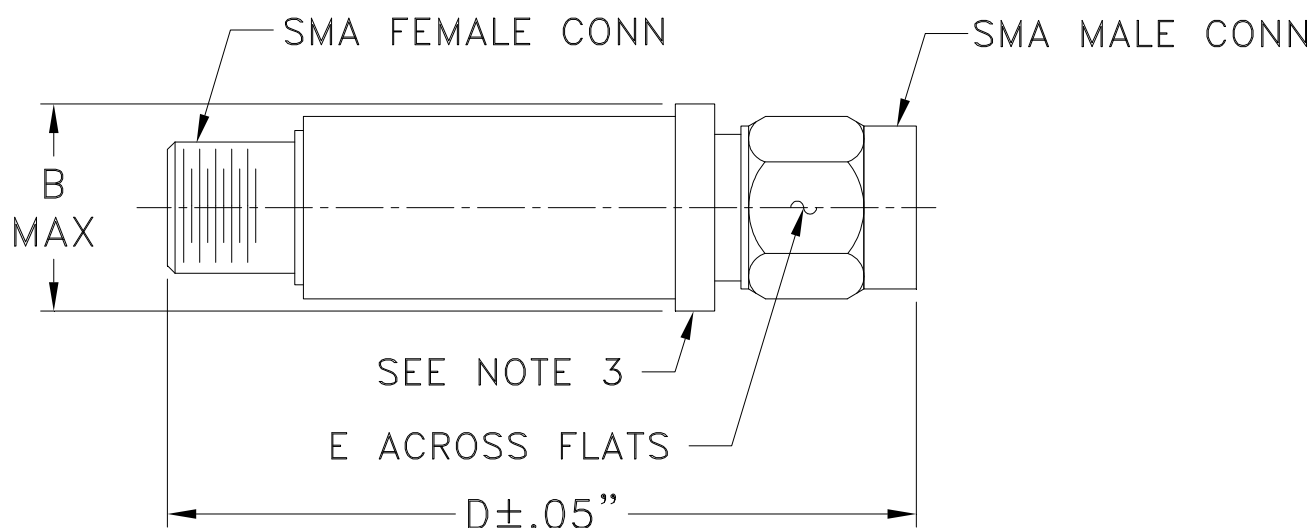
FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)
50	70.94	0.00
100	69.26	0.02
200	68.18	0.09
300	69.94	0.23
400	72.08	0.40
500	69.83	0.53
600	71.22	0.70
700	66.38	0.80
800	59.47	0.86
900	57.69	0.88
1000	63.21	0.87
1100	47.96	0.88
1290	23.98	1.12
1400	12.09	2.06
1500	4.25	6.54
1700	1.58	16.39
1800	1.58	13.29
2000	1.54	12.66
2025	1.52	13.18
2100	1.45	16.08
2250	1.52	23.99
2500	2.97	10.09
2650	9.22	3.72
2750	20.76	1.82
2800	29.10	1.46
2900	38.47	1.16
3000	35.81	0.95
3500	39.10	0.53
4000	37.42	0.36
4500	38.64	0.25
5000	34.96	0.29
5500	40.84	0.32
6000	53.68	0.31
6500	55.19	0.35
7000	54.61	0.44
7200	55.78	0.53
7500	55.73	1.04
8000	55.70	1.30
8500	50.44	0.38
9000	53.52	0.45
9500	39.30	0.52
10000	33.30	0.67
10500	51.42	1.01
11000	49.66	0.71
11500	47.76	0.84
12000	41.55	0.91
12500	37.73	1.04
13000	42.77	0.77
14000	38.59	1.57
15000	44.45	2.12
16000	63.69	0.50
17000	46.11	0.58
18000	39.74	1.12
19000	31.67	3.47
20000	38.46	14.32



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



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