

Coaxial Bandpass Filter

VBF-4440+

50Ω 4200 to 4700 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W at 25°C

*Passband rating, derate linearly to 0.25W at 100°C ambient.

Features

- Good VSWR, 1.2:1 Typ @ Passband
- Rugged uni-body construction, small size
- Temperature stable

Applications

- Harmonic rejection
- Transmitters/receivers
- Lab use
- Test instrumentation



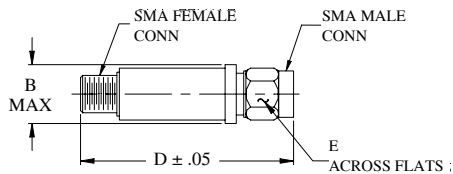
CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VBF-4440+	\$34.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

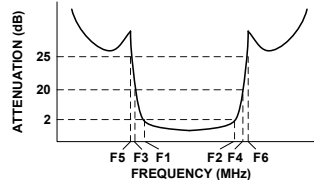
Outline Drawing



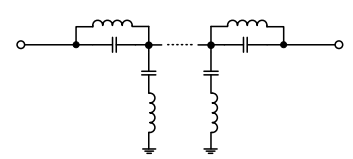
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)	
		Loss > 20dB F3	Loss > 20dB F4	Loss 25dB Typ F5	Loss 25dB Typ F6	Passband Max.	Stopband Typ.
4440	4200 - 4700	2000	6750	2000	6650 - 12000	1.6	20

Typical Frequency Response



Functional Schematic

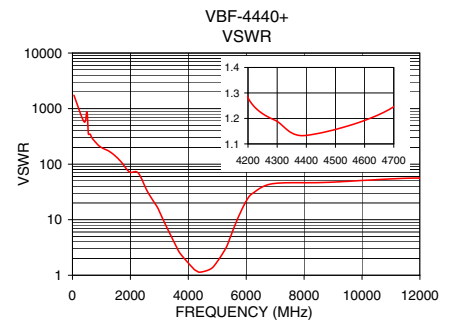
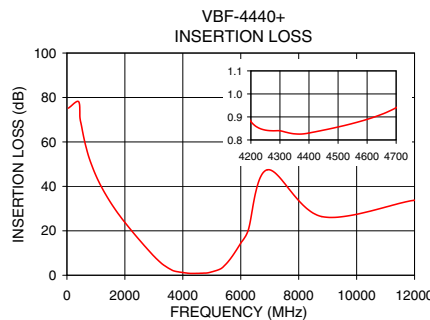


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	75.21	1737.18
500	67.47	868.59
1000	44.89	868.59
2000	23.83	96.51
2300	19.02	54.29
2900	9.98	18.50
3300	4.99	6.49
3700	1.99	2.58
4200	0.88	1.28
4440	0.84	1.13
4700	0.94	1.25
5000	1.36	1.70
5400	3.89	4.12
5650	7.53	8.86
6000	14.41	21.73
6650	31.12	44.55
6750	35.25	43.44
9000	26.00	42.38
12000	34.49	52.65

Outline Dimensions (inch/mm)

B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10



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

RF/IF MICROWAVE COMPONENTS

REV. OR
M115948
EDR-8883/1F2
VBF-4440+
RAV
080210
Page 1 of 1