

Bandpass Filter

VBF-7700+

50Ω 7500 to 7900 MHz



Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	2W max. at 25°C

*Passband rating, derate linearly to 0.5W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

Features

- Small size
- Temperature stable
- Rugged unibody construction

CASE STYLE: FF704

Connectors	Model
SMA	VBF-7700+

Applications

- Harmonic Rejection
- Transmitters / Receivers

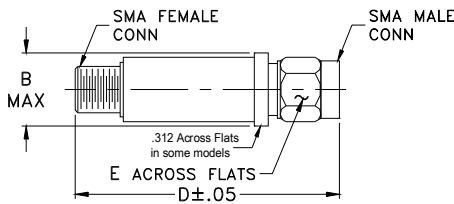
+RoHS Compliant

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

Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	7700	—	MHz
	Insertion Loss	F1-F2	7500-7900	—	1.8	dB
	VSWR	F1-F2	7500-7900	—	1.4	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-6400	—	18	dB
	VSWR	DC-F3	DC-6400	—	30	:1
Stop Band, Upper	Insertion Loss	F4-F5	9200-14800	—	20	dB
	VSWR	F4-F5	9200-14800	—	30	:1

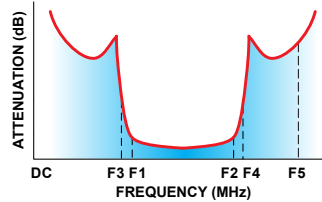
Outline Drawing



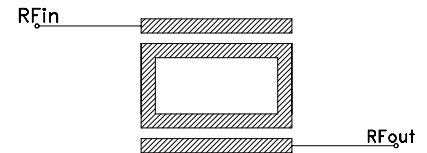
Outline Dimensions (inch/mm)

B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

Typical Frequency Response

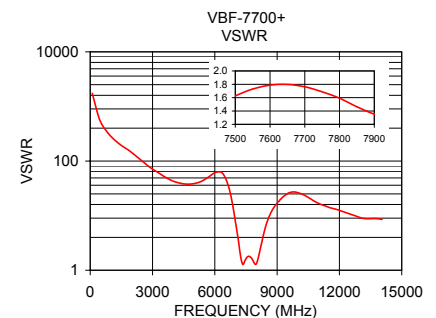
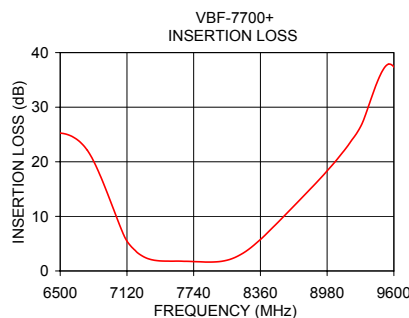
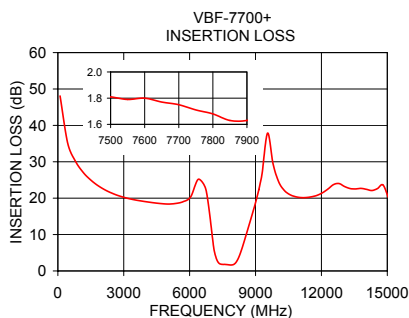


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	48.09	1737.18
450.00	35.09	579.06
800.00	30.15	347.44
1150.00	27.11	248.17
2550.00	21.15	96.51
5000.00	18.39	38.61
6050.00	20.37	62.05
6750.00	22.17	25.56
7100.00	6.18	4.27
7500.00	1.81	1.63
7900.00	1.63	1.35
10050.00	24.54	25.94
11050.00	20.16	16.41
12050.00	21.48	12.26
15050.00	20.19	7.97



Notes

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



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