Coaxial

Bandpass Filter

VBFZ-2575-S+

50Ω 2350 to 2800 MHz

Maximum Ratings

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

*Passband rating, derate linearly to 3W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Features

- Good Rejection, 30dB up to 9GHz
- Low insertion loss
- Excellent power handling, 7W
- Temperature stable LTCC internal structure
- Rugged stainless steel unibody
- Protected by US Patent 6,943,646

Applications

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

Generic photo used for illustration purposes only

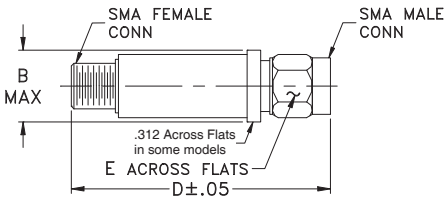
CASE STYLE: FF1145

Connectors	Model
SMA	VBFZ-2575-S+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch / mm)

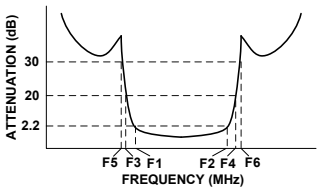
B	D	E	wt.
.410	**1.91**	**.312**	grams
10.41	48.51	7.92	11.8

Note: Please refer to case style drawing for details

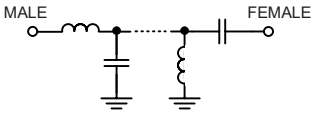
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2.2dB)	STOPBANDS (MHz) (Loss > 20dB)		(Loss 30dB Typ)		VSWR (:1) Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
2575	2350 - 2800	1390	3850	1275	3900 - 9000	1.9	2.8	20

Typical Frequency Response



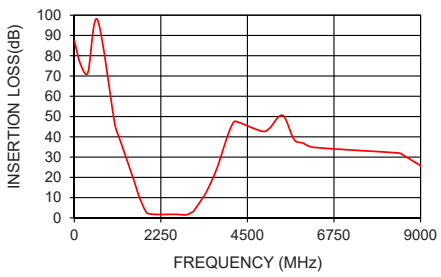
Functional Schematic



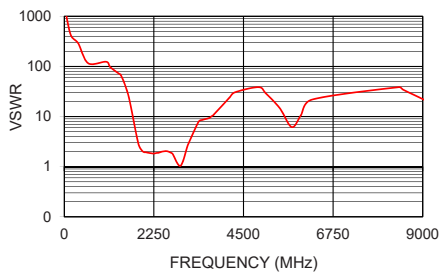
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	80.64	528.17
500	77.72	211.55
1275	33.69	80.44
1390	27.36	65.30
1477	22.52	43.15
1590	16.11	27.10
1720	8.53	10.60
1801	4.71	4.72
1865	2.90	2.81
2350	1.68	1.88
2575	1.77	2.03
2800	1.57	1.52
3119	3.68	2.93
3262	7.36	5.89
3405	11.94	8.05
3682	23.22	9.90
3850	32.35	12.73
3900	35.36	14.28
7000	35.60	35.75
9000	27.72	46.46

VBFZ-2575-S+
INSERTION LOSS



VBFZ-2575-S+
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

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