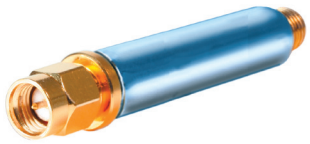
Coaxial

Bandpass Filter

VBFZ-780+

50Ω 710 to 850 MHz



CASE STYLE: FF1145

Connectors	Model	Price	Qty.
SMA	VBFZ-780-S+	$39.95 ea.	(1-9)

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

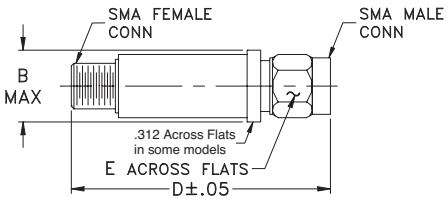
- Good Rejection, 30dB up to 16GHz
- Low insertion loss
- Excellent power handling, 7W
- Temperature stable LTCC internal structure
- Rugged stainless steel unibody
- Protected by US Patent 6,943,646

Application

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

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

Outline Drawing



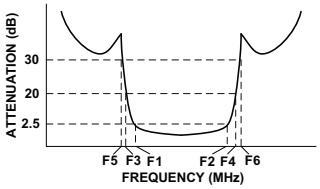
Outline Dimensions (inch / mm)

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

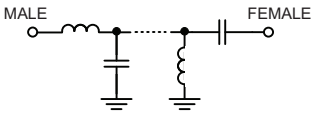
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2.5dB)	STOPBANDS (MHz) (Loss > 20dB)		(Loss 30dB Typ)		VSWR (:1) Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
780	710 - 850	460	1300	440	1320 - 16000	1.6	2.3	20

Typical Frequency Response

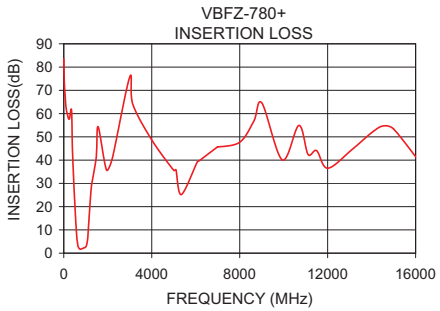


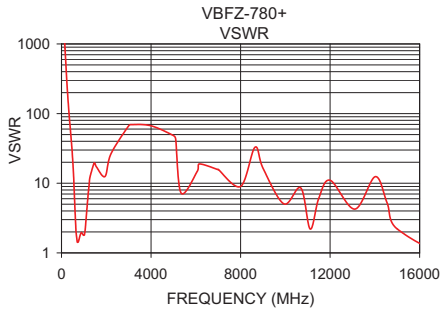
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	79.73	6806.77
80	65.09	2913.45
250	57.62	233.19
440	33.58	40.34
460	29.32	33.32
510	19.74	19.36
542	14.26	12.39
595	6.78	4.72
643	3.19	2.14
710	1.87	1.42
780	1.76	1.55
850	2.01	1.86
1052	3.95	2.08
1105	7.91	3.31
1158	15.43	5.32
1300	30.97	14.04
1320	31.84	15.36
3000	76.71	66.69
8000	47.70	8.93
16000	45.21	19.38





REV. B
M131793
EDR-8444U
VBFZ-780+
URJ/RAV
121016