

# Coaxial Bandpass Filter

## VBF-2555+

50Ω 2500 to 2610 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. Permanent damage may occur if any of these limits are exceeded.

### Features

- Good VSWR, 1.6:1 Typ @ Passband
- Rugged uni-body construction, small size
- Temperature stable

### Applications

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



Generic photo used for illustration purposes only

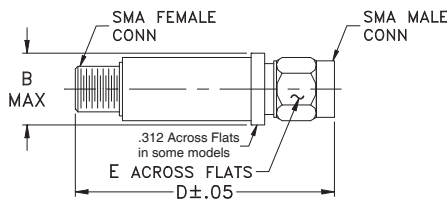
CASE STYLE: FF704

Connectors	Model
SMA	VBF-2555+

### +RoHS Compliant

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

### Outline Drawing



### Outline Dimensions (inch mm)

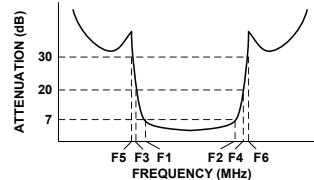
B	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Note: Please refer to case style drawing for details

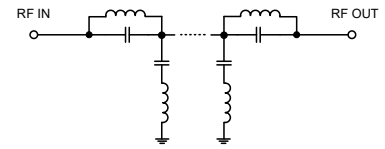
### Bandpass Filter Electrical Specifications (T<sub>AMB</sub> = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 7dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss 30dB Typ		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
2555	2500 - 2610	1970	3200	2000	3250 - 5500	1.6	2.8	20

### Typical Frequency Response

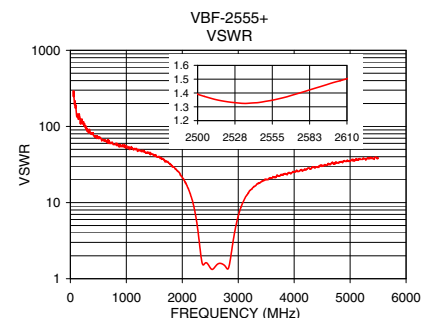
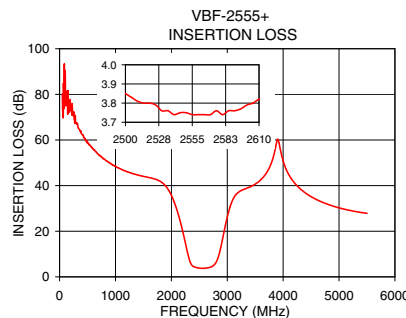


### Functional Schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	72.26	289.53
200	74.05	115.81
500	59.32	69.49
1000	48.65	54.29
1970	37.58	23.18
2000	36.10	21.46
2200	20.97	9.33
2300	10.44	3.23
2350	6.26	1.68
2500	3.77	1.39
2555	3.69	1.35
2610	3.78	1.50
2850	7.92	1.64
2920	14.90	3.49
3000	24.49	6.66
3200	37.30	14.15
3250	38.25	15.26
3700	46.50	22.87
4500	34.74	31.03
5500	27.76	38.61



### 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-Circuits' 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](http://www.minicircuits.com/MCLStore/terms.jsp)

