Coaxial

Bandpass Filter

VBF-2900+

50Ω 2700 to 3100 MHz

CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VBF-2900+	$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.

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.*

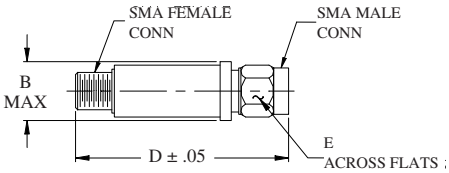
Features

- Rugged uni-body construction, small size
- Temperature stable

Applications

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

Outline Drawing



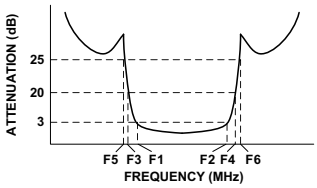
Outline Dimensions (inch / mm)

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

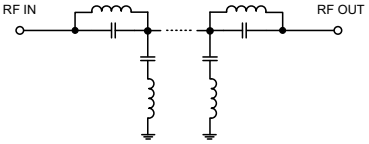
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB)	STOPBANDS (MHz)				VSWR (:1)		
		Loss > 20dB		Loss 25dB Typ		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
2900	2700 - 3100	1850	4200	1800	4900 - 7000	2.3	3.6	20

Typical Frequency Response



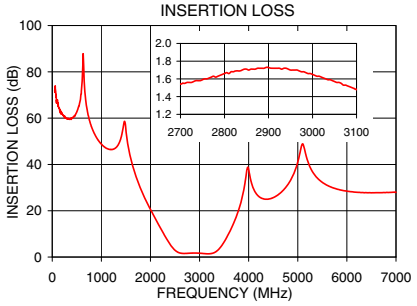
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	72.12	1737.18
500	62.70	289.53
1000	48.80	86.86
1800	29.54	43.44
1850	27.15	40.41
2200	12.70	18.11
2380	6.11	6.78
2480	3.34	3.42
2700	1.54	1.86
2900	1.73	2.17
3100	1.48	1.65
3400	3.57	2.97
3500	6.52	5.61
3650	12.55	10.75
4200	26.29	13.60
4900	35.11	20.95
5200	41.62	25.94
5500	32.26	31.60
7000	27.99	42.38

VBF-2900+
INSERTION LOSS



VBF-2900+
VSWR