# **Bandpass Filter**

**VBF-2360+** 

 $50\Omega$ 2250 to 2470 MHz

# **The Big Deal**

- Low Insertion Loss (2.0 dB typical)
- Good close-in rejection
- Versatile small size, coaxial, 1.43" length



#### CASE STYLE: FF704

# **Product Overview**

The VBF-2360+ Band Pass Filter is constructed using internal LTCC Band Pass Filter structure to achieve repeatable performance. Covering 2360 MHz ± 110 MHz, these units offer low insertion loss and good rejection at the band reject edges. Built using Mini-Circuits proven unibody construction which integrates the RF connectors with the case body, the VBF-2360+ takes very little space and meets rugged test lab system environment.

# **Key Features**

Feature	Advantages
Good Rejection close to pass band	Provides good rejection of signals close to the pass band, for improved system performance.
Compact Versatile Case (1.43"x0.41")	Enables use in a variety of applications including space constrained connectorized systems.  Connectors: SMA Female (1), SMA Male (1)
Rugged Unibody Construction	Mini-Circuits Unibody construction allows survivability in critical applications including militarized or industrial systems.

For detailed performance specs

# **Bandpass Filter**

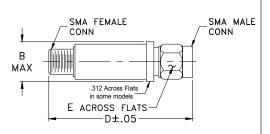
#### $50\Omega$ 2250 to 2470 MHz

### **Maximum Ratings**

Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RE Power Input*	1.5W may at 25°C			

<sup>\*</sup>Passband rating, derate linearly to 0.25W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.

# **Outline Drawing**



# Outline Dimensions (inch mm)

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

#### **Features**

- · Small size
- Temperature stable
- · Rugged unibody construction

### **Applications**

- Harmonic Rejection
- Transmitters / Receivers

# **VBF-2360+**



CASE STYLE: FF704

Connectors	Model	Price	Qty.
SMA	VBF-2360+	\$34.95 ea.	(1-9)

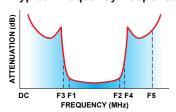
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

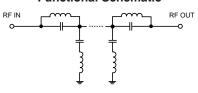
### Electrical Specifications at 25°C

Parar	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	2360	_	MHz
Pass Band	Insertion Loss	F1-F2	2250-2470	_	_	3.0	dB
	VSWR	F1-F2	2250-2470	_	_	2.5	:1
Oten Dend Lewes	Insertion Loss	DC-F3	DC-1700	_	20	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-1700	_	25	_	:1
Ston Bond Unner	Insertion Loss	F4-F5	4300-6200	_	25	_	dB
Stop Band, Upper	VSWR	F4-F5	4300-6200	_	20	_	:1

#### **Typical Frequency Response**

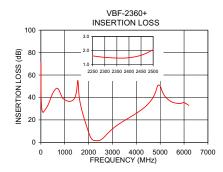


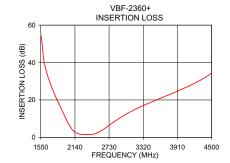
#### **Functional Schematic**

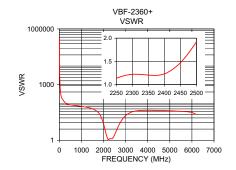


## Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.30	71.17	2878.39
300.00	33.29	96.92
1000.00	37.99	66.84
1300.00	37.00	58.44
1700.00	30.04	36.63
1850.00	18.85	22.64
2260.00	1.60	1.16
2470.00	1.80	1.63
3600.00	20.68	39.85
3800.00	23.21	40.82
4000.00	25.91	41.22
4400.00	32.27	40.97
5500.00	35.96	36.32
5800.00	34.66	34.47
6200.00	32.93	24.67







**Mini-Circuits** 

For detailed performance specs

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