Coaxial **Bandpass Filter**

50Ω 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

VBF-2360+



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 milita- rized or industrial systems.

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-Circuit's standard limited warranty and terms and conditions (collective), "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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial **Bandpass Filter**

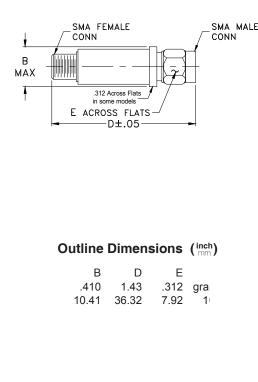
50Ω 2250 to 2470 MHz

Maximum Ratings

•	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W max. 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.

Outline Drawing



Features

- Small size
- Temperature stable
- · Rugged unibody construction

Applications

- Harmonic Rejection
- Transmitters / Receivers

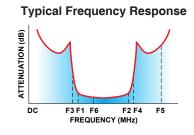


	CASE STYLE:	FF704	
Connectors	Model	Price	Qty.
SMA	VBF-2360+	\$34.95 ea.	(1-9)

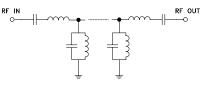
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

Para	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	—	_	2360	_	MHz
Pass Band	Insertion Loss	F1-F6	2250-2330	-	_	5.5	dB
Pass band		F6-F2	2330-2470	_	_	3.0	dB
	VSWR	F1-F2	2250-2470	-	2.5	_	:1
Sten Band Lawer	Insertion Loss	DC-F3	DC-1700	_	20	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-1700	_	25	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	4300-6200	_	25	_	dB
Stop Band, Opper	VSWR	F4-F5	4300-6200	_	20	_	:1

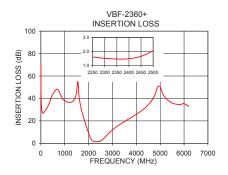


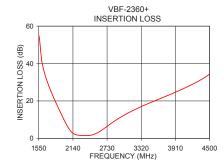
Functional Schematic

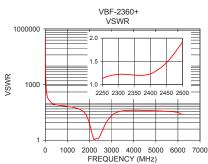


Typical Performance Data at 25°C

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







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