Bandpass Filter

VBF-2435+

2340 to 2530 MHz 50Ω

The Big Deal

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



Product Overview

The VBF-2435+ Band Pass Filter is constructed using internal LTCC Band Pass Filter structure to achieve repeatable performance. Covering 2435 MHz ± 95 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-2435+ 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

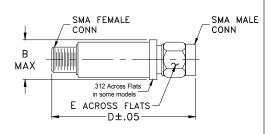
50Ω 2340 to 2530 MHz

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



Outline Dimensions (inch mm)

D Ε .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-2435+



CASE	CTVI	г.	レレス 04
CASE	2 I I I	Г.	FF / U4

Connectors	Model	Price	Qty.
SMA	VBF-2435+	\$34.95 ea.	(1-9)

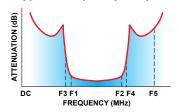
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

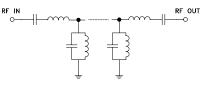
Electrical Specifications at 25°C

Parai	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	2435	_	MHz
Pass Band	Insertion Loss	F1-F2	2340-2530	_	_	3.0	dB
	VSWR	F1-F2	2340-2530	_	_	2.5	:1
Otan Daniel Lauren	Insertion Loss	DC-F3	DC-1830	_	20	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-1830	_	25	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	4300-5500	_	25	_	dB
	VSWR	F4-F5	4300-5500	_	20	_	:1

Typical Frequency Response

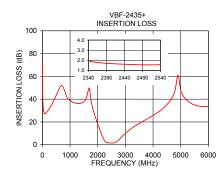


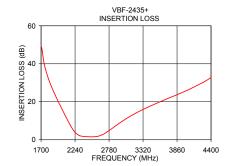
Functional Schematic

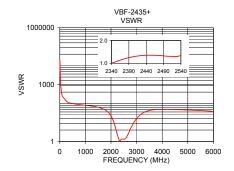


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.30	71.98	10651.50
100.00	27.08	244.03
1000.00	38.91	80.92
1500.00	37.83	63.35
1650.00	47.03	54.90
1950.00	21.73	28.06
2200.00	5.68	3.99
2340.00	1.92	1.02
2440.00	1.61	1.35
2530.00	1.55	1.30
3000.00	9.98	16.10
3580.00	19.86	45.67
3800.00	22.91	48.47
3850.00	23.59	48.74
5500.00	35.01	42.42







Mini-Circuits

For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com IF/RF MICROWAVE COMPONENTS

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