Coaxial **Bandpass Filter**

1480 to 1570 MHz 50Ω

The Big Deal

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



VBF-1525+

Product Overview

The VBF-1525+ Band Pass Filter is constructed using internal LTCC Band Pass Filter structure to achieve repeatable performance. Covering 1525 MHz ± 45 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-1525+ 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.



For detailed performance specs

IF/RF MICROWAVE COMPONENTS Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Min-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test are an entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of this parts covered by this specification. For a full statement of the Standard Terms'): Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'): Purchasers of the standar

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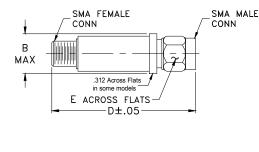
50Ω 1480 to 1570 MHz

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)

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





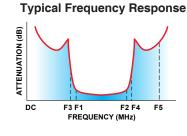
	CASE STYLE:	FF704	
Connectors	Model	Price	Qty.
SMA	VBF-1525+	\$34.95 ea.	(1-9)

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

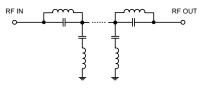
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications at 25°C

Para	neter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	—	_	1525	_	MHz
Pass Band	Insertion Loss	F1-F2	1480-1570	_	_	3.0	dB
	VSWR	F1-F2	1480-1570	-	_	2.5	:1
Oton Dand Lawren	Insertion Loss	DC-F3	DC-1150	_	20	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-1150	-	25	_	:1
Sten Bend Unner	Insertion Loss	F4-F5	2900-5100	_	25	_	dB
Stop Band, Upper	VSWR	F4-F5	2900-5100	_	20	_	:1

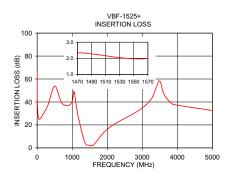


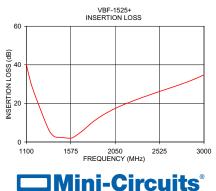
Functional Schematic

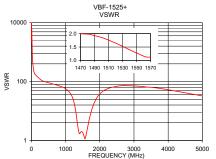


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.30	65.45	2271.75
300.00	36.71	110.05
900.00	37.14	65.76
1050.00	49.26	51.32
1100.00	40.11	45.74
1250.00	17.00	18.94
1400.00	2.80	1.73
1480.00	2.32	1.98
1570.00	2.00	1.13
2100.00	18.50	47.88
2400.00	24.10	65.44
2600.00	27.40	71.84
3000.00	34.81	71.10
3500.00	58.38	63.85
5100.00	32.14	30.99







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 2 Provides ACTUAL Data Instantly at minicipaties.com IF/RF MICROWAVE COMPONENTS

REV. B M129173 VBF-1525+ AD/CP/AM 101007

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