Bandpass Filter

VBF-7200+

7100 to 7300 MHz 50Ω

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-7200+ Band Pass Filter is constructed using internal LTCC Band Pass Filter structure to achieve repeatable performance. Covering 7200 MHz ± 100 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-7200+ 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.

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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-Circuits standard limited warranty and terms and conditions (collectively, "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-Circuits' website at www.ninicircuits.com/MCLStore/terms.jsp

Bandpass Filter

50Ω 7100 to 7300 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RE Power Input*	2W may at 25°C

^{*}Passband rating, derate linearly to 0.5W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.

Features

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

VBF-7200+

CASE STYLE: FF704

Connectors	Model
SMA	VBF-7200+

+RoHS Compliant

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

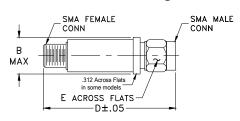
Applications

- Harmonic Rejection
- Transmitters / Receivers

Electrical Specifications at 25°C

Para	meter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	7200	_	MHz
Pass Band	Insertion Loss	F1-F2	7100-7300	_	2.0	3.5	dB
	VSWR	F1-F2	7100-7300	_	2.5		:1
Cton Bond Lower	Insertion Loss	DC-F3	DC-6500	_	15	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-6500	_	30	_	:1
Cton Bond Ilmnor	Insertion Loss	F4-F5	8400-13800	_	20	_	dB
Stop Band, Upper	VSWR	E4-E5	8400-13800		30	_	-1

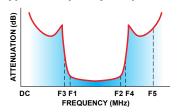
Outline Drawing



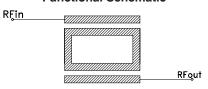
Outline Dimensions (inch mm)

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

Typical Frequency Response

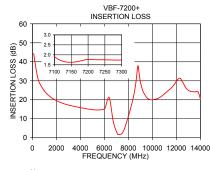


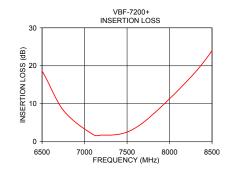
Functional Schematic

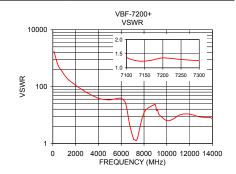


Typical Performance Data at 25°C

44.36 26.49 21.53 18.08	1737.18 347.44 157.93 78.97
21.53 18.08	157.93
18.08	
	79.07
44.00	70.97
14.82	34.07
15.61	37.77
8.29	4.39
1.91	1.37
1.74	1.26
11.32	11.85
20.06	6.30
23.36	9.69
30.24	10.56
	7.17
	23.36







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