50Ω 140 to 1150 MHz



The Big Deal

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

CASE STYLE: FF704

Product Overview

The VHF-145+ High Pass Filter is constructed using internal LTCC High Pass Filter structure to achieve repeatable performance. Covering 140-1150 MHz, these filters offer a wide bandwith. For a high pass filter, that is versatile for many upconverter applications. Built using Mini-Circuits proven unibody construction which integrates the RF connectors with the case body, the VHF-145+ takes very little space and meets rugged field test lab system environment.

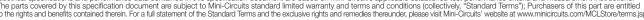
Key Features

Feature	Advantages
Wideband	Covers VHF and UHF bands, and is ideal for up conversion applications.
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.

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-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



High Pass Filter

VHF-145+

50Ω 140 to 1150 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max_at 25°C

^{*} Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded

Features

- rugged unibody construction, small size
- 7 sections
- temperature stable

Applications

sub-harmonic rejection

- · excellent power handling, 7W
- · low cost

Generic photo used for illustration purposes only

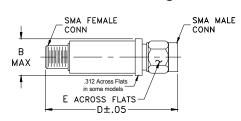
CASE STYLE: FF704

Connectors	Model
SMA	VHF-145+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch)

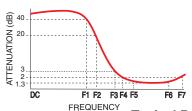
W	E	D	В
grams	.312	1.43	.410
10.0	7 92	36 32	10 /1

• transmitters/receivers lab use

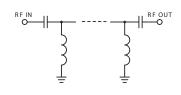
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Rejection Loss	DC-F1	DC-80	20			dB
Stop Band	nejection Loss	DC-F2	DC-115	15			dB
Stop Band	Freq. Cut-Off	F3	132		3.0		dB
	VSWR	DC-F2	DC-115		20		:1
Pass Band	Insertion Loss	F5-F6	155-1050			1.5	dB
	insertion Loss	F4-F7	140-1150			3.0	dB
	VSWR	F5-F7	155-1150		1.5		:1

Electrical Specifications at 25°C

Typical Frequency Response



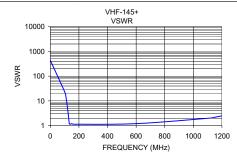
Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.30	63.96	434.30
100.00	20.05	23.49
110.00	19.50	13.60
124.00	8.68	3.42
133.00	2.45	1.20
141.00	1.39	1.14
145.00	1.17	1.19
148.00	1.06	1.20
152.00	0.94	1.19
156.00	0.84	1.16
160.00	0.77	1.14
600.00	0.39	1.20
1120.00	1.23	2.03
1150.00	1.38	2.18
1200.00	1.71	2.50





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