Coaxial **High Pass Filter**

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

<u>VHF-145+</u>

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 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-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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



Coaxial **High Pass Filter**

500

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
- excellent power handling, 7W
- low cost

Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use



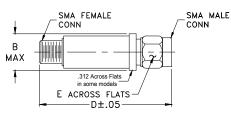
Generic photo used for illustration purposes only

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)

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

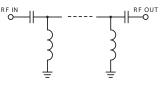
Frequency (MHz) Parameter F# Min Unit Тур. Max. DC-F1 DC-80 20 dB **Rejection Loss** DC-F2 DC-115 15 dB Stop Band Freq. Cut-Off F3 132 3.0 dB DC-F2 DC-115 VSWR 20 :1 F5-F6 155-1050 1.5 dB Insertion Loss 140-1150 dB Pass Band F4-F7 3.0 VSWR F5-F7 155-1150 1.5 :1

Electrical Specifications at 25°C

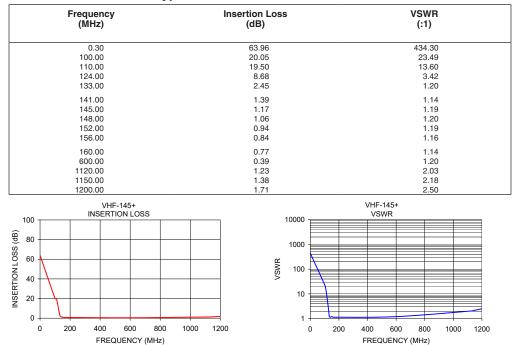
Typical Frequency Response

(අප ම 40 ATTENUATION 20 13 DC F1 F2 F3 F4 F5 F6 F7 FREQUENCY

Electrical Schematic



Typical Performance Data at 25°C





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