Coaxial **High Pass Filter**

50Ω 1150 to 5000 MHz

The Big Deal

- Pass band (1150 to 5000 MHz)
- Low insertion loss <1dB (1500-4000 MHz)
- Versatile small size, coaxial, 1.43" length



Product Overview

The VHF-1080+ High Pass Filter is constructed using internal LTCC High Pass Filter structure to achieve repeatable performance. Covering 1150-5000MHz, these filters offer a wide bandwidth, good rejection and low insertion loss. Built using Mini-Circuits proven unibody construction which integrates the RF connectors with the case body, the VHF-1080+ takes very little space and meets rugged field test lab system environment.

Key Features

Feature	Advantages		
Rejection peaks at harmonic frequencies	Provides good rejection of signals at harmonic frequencies, for improved system performance.		
Compact Versatile Case	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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Coaxial **High Pass Filter**

50Ω 1150 to 5000 MHz

Features

- Low insertion loss <1dB (1500-4000 MHz)
- Temperature stable
- Rugged unibody construction, small size

Functional Schematic

Typical Frequency Response

F3

FREQUENCY (MHz)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site

for RoHS Compliance methodologies and qualifications

F4

F5 F6

F7 F8

RF OUT

Applications

- Transmitters / Receivers
- · Lab use

RF IN

DC

INSERTION LOSS (dB)

F1, F2,



CASE STYLE: FF704 Connectors Model SMA VHF-1080+

Electrical Specifications⁽¹⁾ at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Rejection Loss	DC-F1	DC-600	40	45	-	
Stop Band		F1-F2	600-750	20	30	-	dB
		F3	780	-	20	-	
	Freq. Cut-Off	F4	1080	-	3	-	
	VSWR	DC-F3	DC-780	-	20	-	:1
Pass Band	Insertion Loss	F5-F8	1150-5000	-	2.0	-	ЧD
		F6-F7	1500-4000	-	0.6	1.3	dB
	VSWR	F5-F7	1150-4000	-	2.0	-	:1

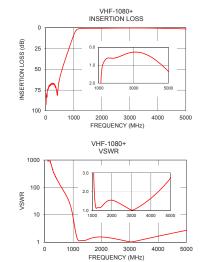
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

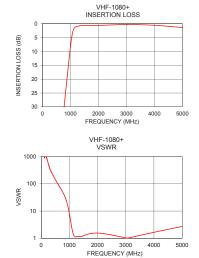
Maximum Ratings					
-55°C to 100°C					
-55°C to 100°C					
7 W					

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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	92.45	6470.90
100	71.34	1388.17
600	47.82	95.94
750	32.42	52.52
760	31.46	50.59
770	30.46	47.86
780	29.48	45.92
870	20.70	28.45
900	17.79	22.97
950	12.97	14.68
1000	8.42	8.06
1050	4.68	3.97
1080	3.11	2.64
1100	2.38	2.07
1150	1.40	1.34
1200	1.05	1.12
1500	0.61	1.24
3000	0.27	1.03
4000	0.55	1.66
5000	1.35	2.71





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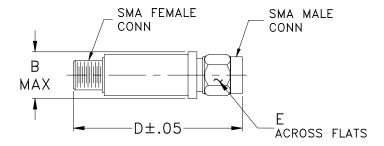
REV.OR M159042 VHF-1080+ EDU2542 URJ 170524 Page 2 of 3



Coaxial Connections

INPUT SMA-Female OUTPUT SMA-Male

Outline Drawing



Outline Dimensions (inch)

В	D	E	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

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