# **High Pass Filter**

### $50\Omega$ 710 to 2490 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

<sup>\*</sup> 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

### low cost

- · excellent power handling, 7W

lab use

**Applications** • sub-harmonic rejection • transmitters/receivers

VHF-650+

Generic photo used for illustration purposes only

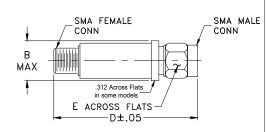
CASE STYLE: FF704

Connectors	Model		
SMA	VHF-650+		

# +RoHS Compliant

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

# **Outline Drawing**



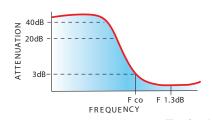
# Outline Dimensions (inch )

D Е wt 410 1 43 .312 grams 10.41 36.32 7.92 10.0

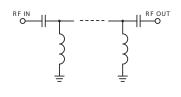
# Electrical Specifications (T<sub>AMB</sub>=25°C)

· ···-							
STOP BAND (MHz) Min.		fco, MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.		NO. OF SECTIONS
IVII	III.	(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)	
(loss > 40 dB)	(loss > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1	
390	480	650	850-2000	710-2490	20:1	760-1700	7

# typical frequency response

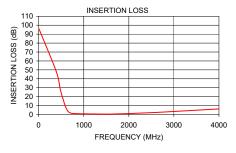


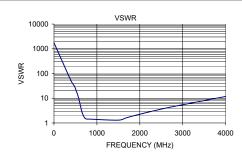
### electrical schematic



# **Typical Performance Data**

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	96.55	1737.18
390	48.08	54.29
480	28.02	29.46
560	14.00	12.44
600	8.19	6.58
650	3.57	2.84
710	1.63	1.65
760	1.20	1.44
850	0.91	1.43
1500	0.45	1.30
1700	0.62	1.64
2000	1.06	2.26
2490	2.07	3.60
2800	2.83	4.67
4000	6.27	11.77





- 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