

# Coaxial High Pass Filter

50Ω

780 to 2800 MHz

VHF-740+



Generic photo used for illustration purposes only

## Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max.

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

## Features

- low cost
- small size
- 7 sections
- temperature stable
- excellent power handling, 7W

## Applications

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

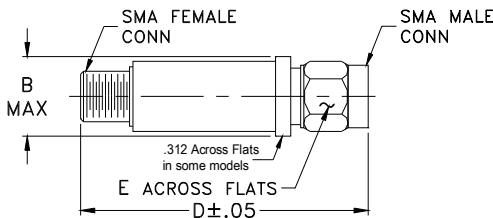
CASE STYLE: FF704

Connectors	Model
SMA	VHF-740+

+RoHS Compliant

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

## Outline Drawing



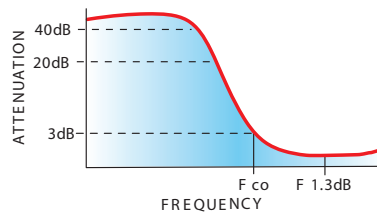
## Outline Dimensions (inch/mm)

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

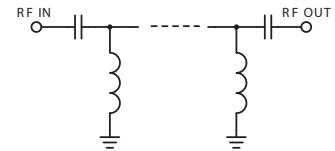
## Electrical Specifications (T<sub>AMB</sub>=25°C)

STOP BAND (MHz) Min.	f <sub>co</sub> , MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.	NO. OF SECTIONS
		(loss < 1.3 dB)	(loss < 2 dB)		
(loss > 40 dB)	(loss > 20 dB)	Typ.	Max.	Typ.	
430	550	740	900-2200	780-2800	20:1
					780-1900

## typical frequency response

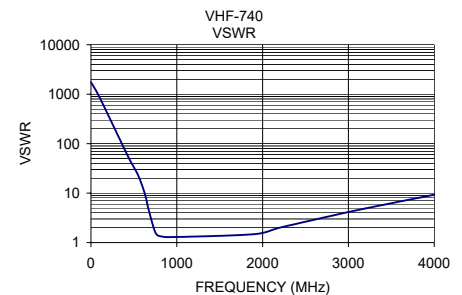
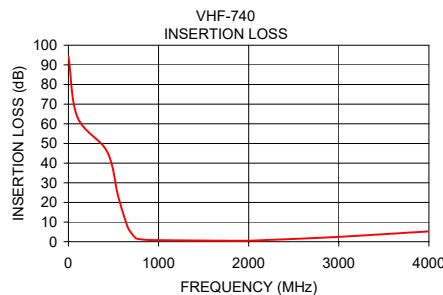


## electrical schematic



## Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	94.42	1737.18
100	63.46	868.59
430	45.87	56.04
550	23.51	22.87
630	11.25	9.38
670	6.35	4.83
740	2.07	1.78
780	1.40	1.39
900	0.88	1.29
1900	0.51	1.48
2200	0.87	2.00
2800	2.00	3.47
3200	3.00	4.91
4000	5.24	9.28



## Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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