

High Pass Filter

VHF-2700A+

50Ω 2900 to 8700 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 uni-body construction, small size
- 5 sections
- Temperature stable
- Excellent power handling, 7W
- Low cost

Application

- Sub-harmonic rejection and DC blocking
- Transmitters/Receivers
- Lab use



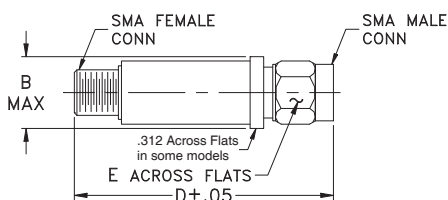
CASE STYLE: FF704

| Connectors | Model |
|------------|------------|
| SMA | VHF-2700A+ |

+RoHS Compliant

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

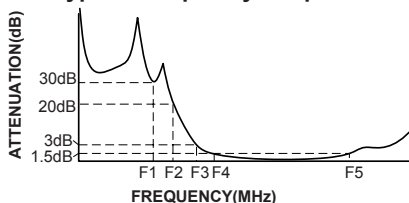
Outline Drawing



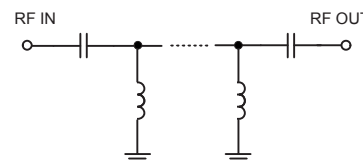
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

| STOPBAND (MHz) | | fco, MHz | PASSBAND (MHz) | | VSWR | | NO. OF SECTIONS |
|----------------|-------------|----------|----------------|------------|----------|-----------------|-----------------|
| (Loss>30dB) | (Loss>20dB) | Nom. | (Loss<1.5dB) | (Loss<2dB) | Typ. | Frequency (MHz) | |
| Typ. DC-F1 | Min. DC-F2 | Typ. F3 | Max. F4-F5 | Max. | Stopband | Frequency | |
| DC-2270 | DC-2150 | 2700 | 3070-8500 | 2900-8700 | 20:1 | 3400-9000 | 5 |

Typical Frequency Response



Electrical schematic

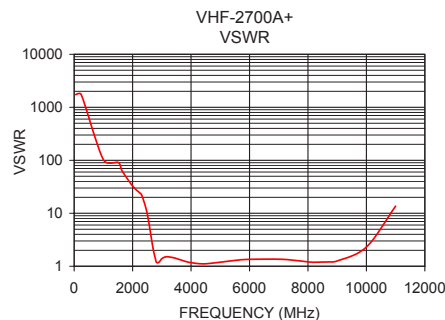
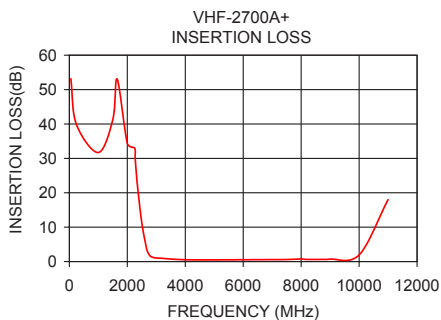


Outline Dimensions (inch/mm)

| B | D | E | wt. |
|-------|-------|------|-------|
| .410 | 1.43 | .312 | grams |
| 10.41 | 36.32 | 7.92 | 10 |

Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50 | 53.16 | 1737.18 |
| 240 | 39.93 | 1737.18 |
| 1000 | 31.71 | 102.19 |
| 1650 | 53.03 | 62.05 |
| 2150 | 40.11 | 27.59 |
| 2270 | 30.26 | 23.81 |
| 2700 | 2.84 | 2.17 |
| 3000 | 1.04 | 1.39 |
| 3070 | 1.01 | 1.47 |
| 3400 | 0.80 | 1.45 |
| 6000 | 0.53 | 1.35 |
| 8500 | 0.62 | 1.20 |
| 8700 | 0.63 | 1.21 |
| 9000 | 0.71 | 1.26 |
| 10000 | 1.94 | 2.31 |
| 11000 | 18.01 | 13.60 |



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.
- 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.minicircuits.com/MCLStore/terms.jsp



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Signal Conditioning](#) category:

Click to view products by [Mini-Circuits](#) manufacturer:

Other Similar products are found below :

[MAPDCC0001](#) [MAPDCC0004](#) [PD0409J5050S2HF](#) [880157](#) [HHS-109-PIN](#) [DC1417J5005AHF](#) [AFS14A30-2185.00-T3](#) [AFS14A35-1591.50-T3](#) [DS-323-PIN](#) [B39321R801H210](#) [1A0220-3](#) [JP510S](#) [LFB212G45SG8C341](#) [LFB322G45SN1A504](#) [LFL182G45TC3B746](#) [SF2159E](#) [30057](#)
[FM-104-PIN](#) [CER0813B](#) [MAPDCC0005](#) [3A325](#) [40287](#) [41180](#) [ATB3225-75032NCT](#) [BD0810N50100AHF](#) [BD2425J50200AHF](#)
[C5060J5003AHF](#) [JHS-115-PIN](#) [JP503AS](#) [DC0710J5005AHF](#) [DC2327J5005AHF](#) [DC3338J5005AHF](#) [43020](#) [LFB2H2G60BB1C106](#)
[LFL15869MTC1B787](#) [X3C19F1-20S](#) [XC3500P-20S](#) [10013-20](#) [SF2194E](#) [CDBLB455KCAX39-B0](#) [TGL2208-SM, EVAL](#) [RF1353C](#)
[PD0922J5050D2HF](#) [1E1305-3](#) [1G1304-30](#) [B0922J7575AHF](#) [2020-6622-20](#) [TP-102-PIN](#) [TP-103-PIN](#) [BD1222J50200AHF](#)