

Coaxial Low Pass Filter

VLF-575+ VLF-575

50Ω *DC to 575 MHz

Maximum Ratings

| | |
|----------------------------|-------------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 8.5W max. at 25°C |
| DC Current Input to Output | 0.5A max. at 25°C |

* Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Features

- rugged uni-body construction, small size
- 7 sections
- excellent power handling, 8.5W
- temperature stable
- low cost
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- transmitters/receivers
- lab use



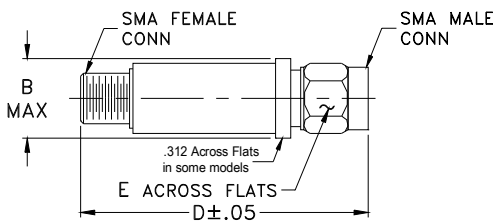
CASE STYLE: FF704

| Connectors | Model | Price | Qty. |
|------------|------------|-------------|-------|
| SMA | VLF-575(+) | \$21.95 ea. | (1-9) |

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch/mm)

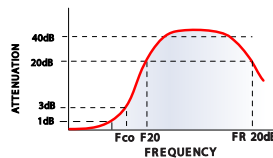
| B | D | E | wt |
|-------|-------|------|-------|
| .410 | 1.43 | .312 | grams |
| 10.41 | 36.32 | 7.92 | 10.0 |

Electrical Specifications at 25°C

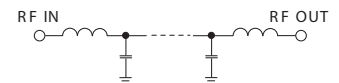
| PASSBAND (MHz) (loss < 1.2 dB) | fco, MHz Nom. (loss 3 dB) | STOP BAND (MHz) (loss, dB) | | | VSWR (:1) | | NO. OF SECTIONS |
|-----------------------------------|---------------------------------|-------------------------------|------------|---------------|------------------|------------------|-----------------|
| | | f 20 Min. | 40 Typ. | fr 20 Typ. | Stopband Typ. | Passband Typ. | |
| Max. | Typ. | | | | | | |
| *DC-575 | 770 | 900 | 1050-3200 | 5500 | 20 | 1.2 | 7 |

* Not for use with DC voltage at input and output ports

typical frequency response

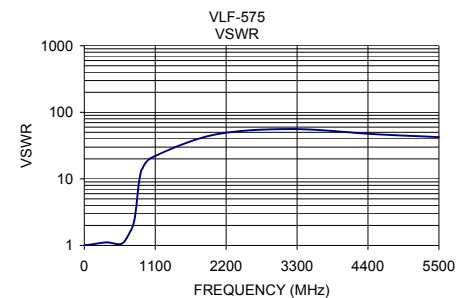
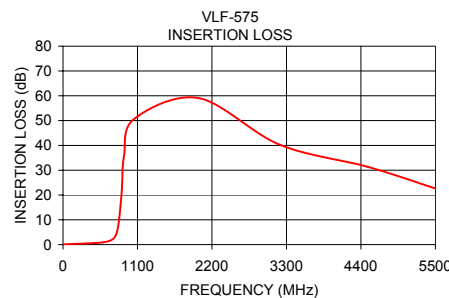


electrical schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 1 | 0.05 | 1.01 |
| 100 | 0.21 | 1.03 |
| 350 | 0.47 | 1.11 |
| 575 | 0.84 | 1.06 |
| 700 | 1.63 | 1.53 |
| 770 | 3.23 | 2.25 |
| 810 | 6.80 | 4.13 |
| 840 | 13.17 | 7.73 |
| 870 | 22.75 | 11.61 |
| 900 | 35.71 | 14.26 |
| 1050 | 50.67 | 20.95 |
| 2000 | 59.09 | 45.72 |
| 3200 | 40.27 | 56.04 |
| 4500 | 31.35 | 46.96 |
| 5500 | 22.64 | 42.38 |



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