

Coaxial Low Pass Filter

NEW!
VLF-6700

DC to 6700 MHz

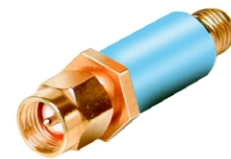
Maximum Ratings

| | |
|----------------------------|-------------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input | 9W max. at 25°C |
| DC Current Input to Output | 0.5A max. at 25°C |

*Passband rating, derate linearly to 3W at 100°C ambient.

Features

- low cost
- small size
- 7 sections
- temperature stable
- patent pending



CASE STYLE: FF704
PRICE: \$19.95 ea. QTY (10-24)

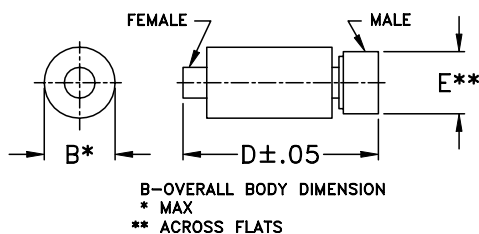
Applications

- harmonic rejection
- transmitters/receivers
- lab use

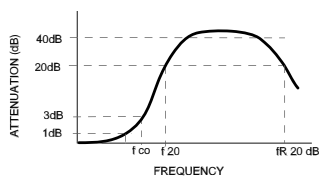
Low Pass Filter Electrical Specifications (T_{AMB}=25°C)

| MODEL NO. | PASSBAND (MHz) (loss < 1 dB) Max. | f _{co} , MHz Nom. (loss 3 dB) Typ. | STOP BAND (MHz) (loss, dB) | | | VSWR (:1) | | NO. OF SECTIONS |
|-----------|---|--|-------------------------------|------------|---------------|------------------|------------------|-----------------|
| | | | f 20 Min. | 30 Typ. | fr 20 Typ. | Stopband Typ. | Passband Typ. | |
| VLF-6700 | DC-6700 | 7600 | 9300 | 9500-12000 | 18000 | 20 | 1.3 | 7 |

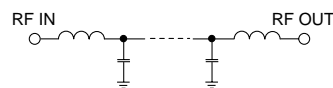
Outline Drawing



typical frequency response



schematic



Typical Performance Data at 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50.00 | 0.03 | 1.01 |
| 500.00 | 0.08 | 1.02 |
| 1000.00 | 0.15 | 1.01 |
| 3500.00 | 0.25 | 1.05 |
| 5000.00 | 0.47 | 1.16 |
| 6700.00 | 0.79 | 1.32 |
| 7600.00 | 3.12 | 3.22 |
| 8000.00 | 7.62 | 7.34 |
| 9000.00 | 26.00 | 21.20 |
| 10000.00 | 55.95 | 44.55 |
| 12000.00 | 34.91 | 108.58 |
| 15000.00 | 26.32 | 22.58 |
| 17000.00 | 23.79 | 18.90 |
| 18000.00 | 21.88 | 40.41 |
| 19890.00 | 22.46 | 2.30 |

Outline Dimensions (inch/mm)

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

