

Coaxial Low Pass Filter

DC to 1125 MHz (40 dB Isolation up to 20 GHz)

NEW!
VLFX-1125

Maximum Ratings

| | |
|---|------------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 10W max. at 25°C |
| *Passband rating, derate linearly to 3.5W at 100°C ambient. | |

Features

- very good isolation, 40 dB up to 20 GHz
- 21 sections
- temperature stable LTCC internal structure
- patent pending
- re-entry frequency > 20 GHz
- rugged stainless steel unibody

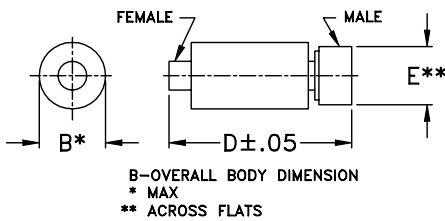


CASE STYLE: FF1118
PRICE: \$ 39.95 ea. QTY (1-9)

Applications

- harmonic rejection
- transmitters/receivers
- lab use
- test instrumentation

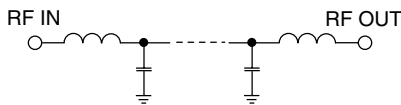
Outline Drawing



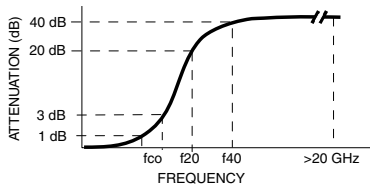
Outline Dimensions (inch/mm)

| | | | |
|------|-------|------|-------|
| B | D | E | wt. |
| .39 | 2.67 | .312 | grams |
| 9.91 | 67.82 | 7.92 | 17.0 |

Functional Schematic



Typical Frequency Response



Low Pass Filter Electrical Specifications @ 25°C

| MODEL NO. | PASSBAND (MHz) (Loss < 1.2dB) Max. | fco, MHz Nom (Loss 3 dB) Typ | STOPBAND (MHz) (Loss, dB) | | VSWR (:1) | | NO. OF SECTIONS |
|-----------|--|---------------------------------------|------------------------------|-------------|------------------|------------------|-----------------|
| | | | f20 Min. | f40 Typ. | Stopband Typ. | Passband Typ. | |
| VLFX-1125 | DC-1125 | 1825 | 2125 | 2350-20000 | 10 | 1.4 | 21 |

Typical Performance Data @ 25°C

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) |
|-----------------|---------------------|-----------|
| 50 | 0.20 | 1.05 |
| 250 | 0.29 | 1.06 |
| 500 | 0.47 | 1.05 |
| 1100 | 0.98 | 1.41 |
| 1150 | 1.02 | 1.44 |
| 1250 | 1.22 | 1.50 |
| 1500 | 1.51 | 1.47 |
| 1850 | 3.24 | 1.76 |
| 1950 | 7.42 | 3.84 |
| 2075 | 20.60 | 8.71 |
| 2250 | 39.02 | 13.93 |
| 4000 | 87.43 | 33.59 |
| 6000 | 73.04 | 64.26 |
| 8000 | 78.45 | 48.12 |
| 10000 | 71.93 | 40.02 |
| 12000 | 57.91 | 20.21 |
| 14000 | 49.00 | 15.03 |
| 16000 | 81.35 | 24.55 |
| 18000 | 64.13 | 22.79 |
| 20000 | 73.49 | 2.20 |

