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Evanescent Cavity Filters
CVE Series

The evanescent mode series of cavity filters covers the frequency range of 1,000 MHz to 18 GHz. The CVE series differs from that of other standard models in that the tuning capacitor is evanescent (hidden) in the electrical wall, where the electric field is blocked, leaving only magnetic coupling. This feature enables the filters to be very small in size with low insertion loss and good suppression of spurious responses.



The CVE series is designed for optimum performance with the package size dependent on frequency and the number of sections required. For specific requirements it is advisable to contact the factory.

TYPICAL SPECIFICATIONS

Frequency Range	1000 MHz to 18000 MHz
No. Sections	2 to 15
3dB BW	3 to 30%
VSWR	1.5:1 Typ.
Impedance	50 Ohms
Avg Power	20 Watts
Shock	10G
Vibration	10G
Temperature	-54 to +85 deg C
Humidity	0 to 95%

Determining Specifications

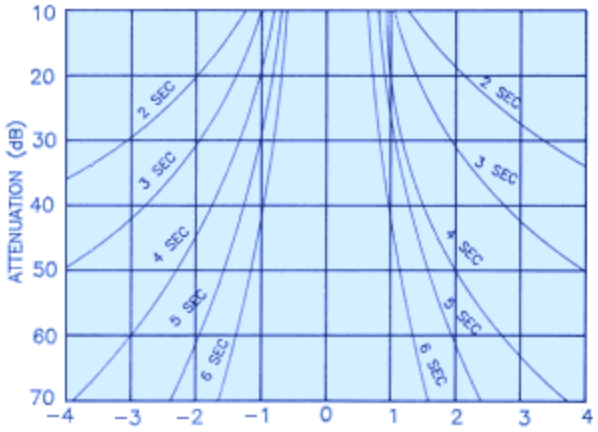
All of the following examples will use this filter

EXAMPLE:	
CENTER FREQ.	7500 MHz
3dB BW	500 MHz
NO. SECTIONS	4

A T T E N U A T I O N

The curve depicted shows the attenuation normalized to the 3dB BW. The following formula is used to predict the attenuation for a given number of sections:

Rejection Freq - Center Freq / 3dB BW



To determine the attenuation at 7000 MHz & 8000 MHz

7000 - 7500 / 500 = -1 taking this number and looking it up on the chart results in 46dB

8000 - 7500 / 500 = +1 taking this number and looking it up on the chart results in 48dB

INSERTION LOSS

The design flexibility afforded with the CVE series permits a wide variation in package size. With insertion loss dependent on number of sections and the area of cross section, the use of loss constants vs. frequency is impractical.

Where insertion loss is a prime consideration, it is best to consult the factory to discuss your particular requirements.

Salisbury Engineering, Inc · (800)989-2141 · Fax:302-846-3888

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