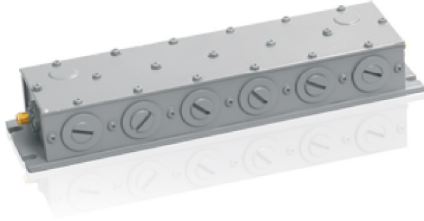




CRN Series

Standard Cavity Bandreject Filter



Overview

The series CRN filters cover a frequency range from 400 MHz to 3,000 MHz. Percent 3 dB bandwidth ranges from 0.2% to 3%. The CRN series uses 1/4 wavelength resonant structures.

Units are available with two through six sections providing a Chebyshev response with low insertion loss. VSWR is less than 1.5:1. Each unit is housed in a high "Q" sturdy aluminum case. Cavities are iris coupled and shielded to minimize RF leakage.

Specifications

Electrical Specifications

Center Frequency Range 0.4 to 3.0 GHz

Min. 3dB Relative Bandwidth (in % of center frequency) 0.2% to 3.0%

Maximum Insertion Loss at Center Frequency Consult Factory

Nominal Impedance 50/75 Ohms

Maximum VSWR at Center Frequency 1.5:1

Stopband Attenuation Consult Factory

Number of Sections 2 to 6

Average Input Power (Watts Max. to 10,000 ft.) See (1) Below

Peak Input Power (Watts Max. to 10,000 ft.) See (1) Below

Environmental Specifications

Shock 5 G's

Vibration 5 G's

Humidity 90%

Altitude Unlimited

Operating Temperature 0° to 50°C

Non-Operating Temperature -54° to +125°C

Length (in.) vs. Number of Sections

Sections	L Dim.
2	2.500
3	3.625
4	4.750
5	5.875
6	7.000

Vertical mounting configurations are available.

Width (in.) vs. Frequency

Frequency Range	W Dim.	D Dim.	H Dim.
401 - 600	4.875	.625	3.625
601 - 900	3.875	.625	2.625
901 - 1300	2.875	.625	1.625
1301 - 1800	2.37	.625	1.125
1801 - 3000	1.875	.375	1.125

Connectors

Connector Style	Code	C Dim.
N Female	A	.985
N Male	B	.825
BNC Female	C	.715
BNC Male	D	.850
TNC Female	E	.715
TNC Male	F	.850
SMA Female	K	.375
SMA Male	L	.570
F Type Female	X	.625
Special	S	-

(1)Dependent upon center frequency and percent bandwidth. Please consult factory for rated power.



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