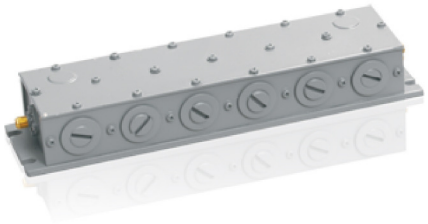
CH Series

Standard Cavity Bandpass Filter



Overview

The CH series filter cover a frequency range from 30 MHz to 3,000 MHz. Percent 3 dB bandwidth ranges from 0.2% to 3%. The CH series uses a helical coil design to achieve lower frequency operation.

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	30 to 400 MHz
Min. 3dB Relative Bandwidth (in % of center frequency)	0.5% 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 +71°C

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

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.
30 - 50	3.875	.625	2.625
51 - 65	2.875	.625	1.625
66 - 100	2.375	.625	1.125
101 - 400	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	-

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