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Ceramic

High Pass Filter

HFCN-440+

50Ω 500 to 2500 MHz

CASE STYLE: FV1206

Maximum Ratings

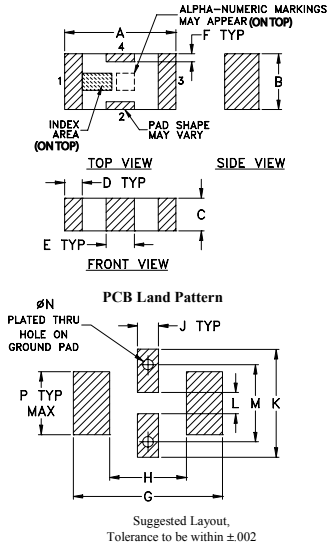
Operating Temperature	-55ºC to 100ºC
Storage Temperature	-55ºC to 100ºC
RF Power Input*	7W max. at 25ºC

*Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



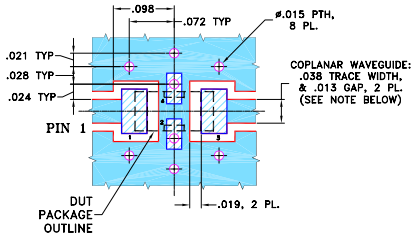
Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Demo Board MCL P/N: TB-270
Suggested PCB Layout (PL-137)



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- Low cost
- Small size
- 7 sections
- Temperature stable
- Excellent power handling, 7W
- Hermetically sealed
- LTCC construction
- Patent pending

Applications

- Military
- Sub-harmonic rejection
- Transmitters / receivers

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost

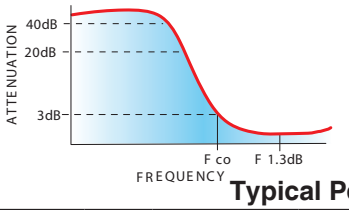
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500,1000, 3000

Electrical Specifications[1,2] at 25°C

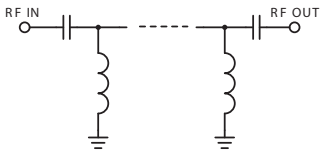
STOPBAND (MHz) Min. (Loss > 40dB)	STOPBAND (MHz) Min. (Loss > 20dB)	fco, MHz Nom. (Loss 3 dB) Typ.	PASSBAND (MHz) (Loss < 1.3dB) Max.	PASSBAND (MHz) (Loss < 2dB) Typ.	VSWR Typ. Frequency (MHz) Stopband	VSWR Typ. Frequency (MHz) 1.5:1	POWER INPUT (W) Max.	NO. OF SECTIONS
230	350	440	600-1700	500-2500	20:1	500-1700	7	7

(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required.
(2) Measured on Mini-Circuits Characterization Test Board TB-270.

typical frequency response



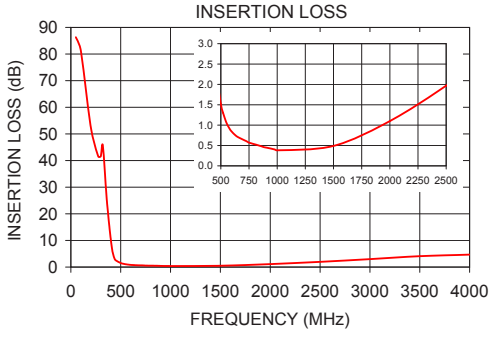
electrical schematic



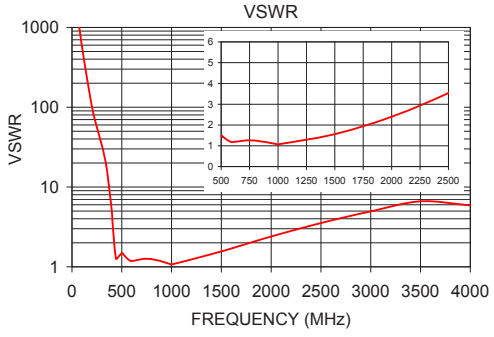
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	86.32	1737.18
100	81.31	579.06
230	46.84	75.53
350	30.62	16.72
385	15.56	7.73
410	7.73	3.29
440	3.08	1.29
450	2.53	1.26
500	1.52	1.48
510	1.40	1.45
600	0.83	1.18
800	0.53	1.25
1000	0.38	1.07
1500	0.49	1.56
1700	0.70	1.87
2500	1.97	3.54
4000	4.69	5.89

HFCN-440+
INSERTION LOSS



HFCN-440+
VSWR



Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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