

Ceramic High Pass Filter

850 to 2490 MHz

NEW!
HFCN-650



BLUE CELL™

CASE STYLE: FV1206

Model	Price	Qty.
HFCN-650	\$1.99	(10-49)
HFCN-650D	\$2.49	(10-49)

Maximum Ratings

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

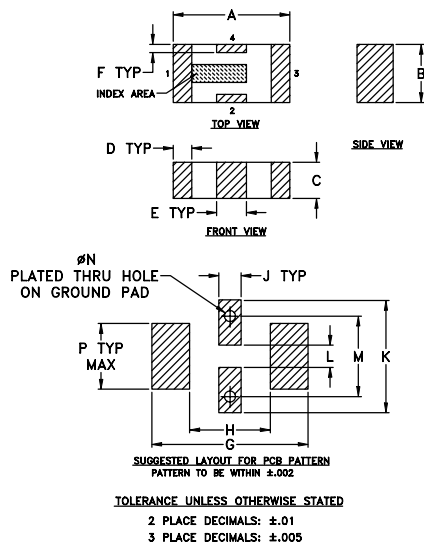
*Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

RF IN	1**
RF OUT	3**
GROUND	2,4

** RF IN & RF OUT can be interchanged

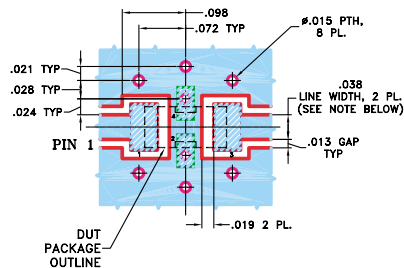
Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
.126	.063	.037	.020	.032	.009	.169	.087	.024	.122	.024	.087	.012	.071	grams
3.20	1.60	0.94	0.51	0.81	0.23	4.29	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)



Features

- low cost
- small size
- 7 sections
- temperature stable
- dc block in/out, breakdown voltage, 1kV typ.
- excellent power handling, 7W

Applications

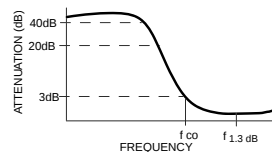
- sub-harmonic rejection and dc blocking
- transmitters/receivers
- lab use

High Pass Filter Electrical Specifications¹ (T_{AMB}=25°C)

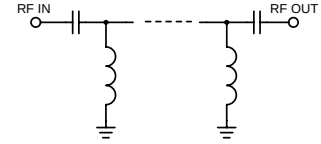
MODEL NO.	STOP BAND (MHz) Min.	f _{co} , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB) Max. (loss < 2 dB) Typ.	VSWR Typ. Frequency (MHz) 1.5:1 Stopband	POWER INPUT (W)	NO. OF SECTIONS
HFCN-650	390 480	650	850-2000 710-2490	20:1 760-1700	7	7

1. For Applications requiring DC voltage to be applied to the Input or output, use HFCN-650D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

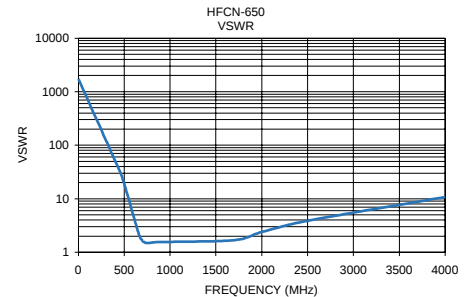
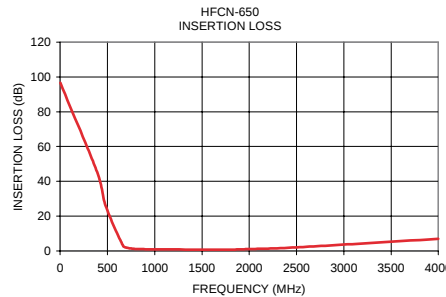


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	96.55	1737.18
390.00	45.42	56.04
480.00	26.09	24.48
665.00	2.98	2.04
710.00	1.84	1.59
760.00	1.34	1.48
850.00	1.02	1.54
1700.00	0.69	1.68
2000.00	1.09	2.39
2500.00	2.08	3.86
4000.00	6.96	10.75



designers kit available

Kit No.	No. of Units in Kit	Description	Price \$ per Kit
K1-HFCN	40	5 of each: HFCN-650, -740, -1200, -1500, -1760, -2000, -2275, -2700	79.95

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