

Ceramic High Pass Filter

2250 to 4750 MHz

NEW!
HFCN-1810



BLUE CELL™

CASE STYLE: FV1206

Model	Price	Qty.
HFCN-1810	\$1.99	(10-49)
HFCN-1810D	\$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

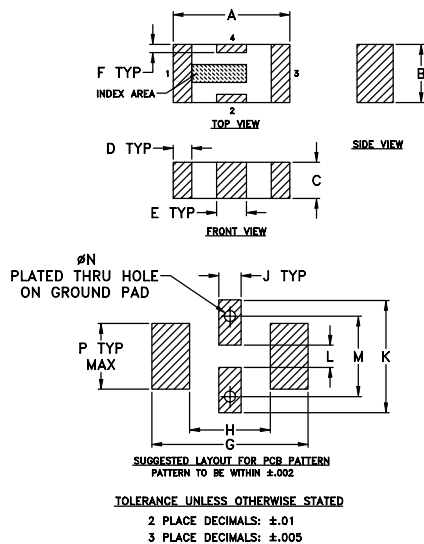
*Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

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

** RF IN & RF OUT can be interchanged

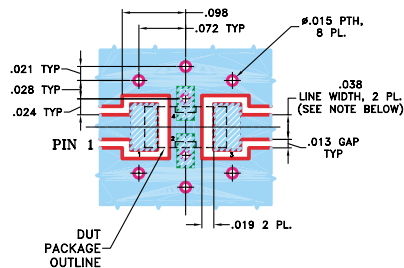
Outline Drawing



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
- excellent power handling, 7W

Applications

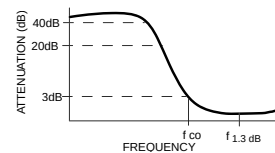
- sub-harmonic rejection
- transmitters/receivers
- lab use

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

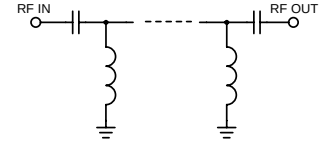
MODEL NO.	STOP BAND (MHz) Min.	f _{co} , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB) Max. (loss < 2 dB) Typ.	VSWR Typ. Stopband Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
HFCN-1810	1100 1480	1810	2250-3850 1950-4750	20:1 2250-3750	7	7

1. For Applications requiring DC voltage to be applied to the Input or output, use HFCN-1810D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

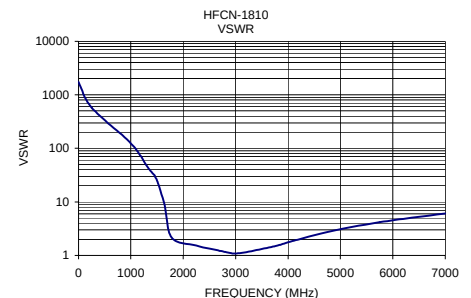
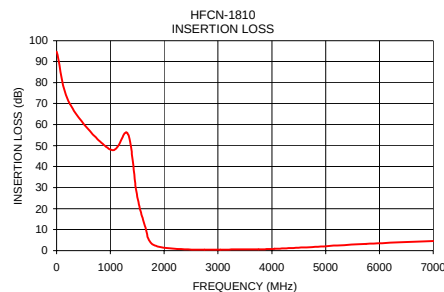


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	94.72	>20
250.00	69.71	>20
1000.00	48.11	>20
1320.00	55.76	>20
1490.00	26.94	>20
1643.00	11.73	8.81
1780.00	3.10	2.15
2250.00	0.83	1.53
2750.00	0.52	1.19
3046.00	0.50	1.10
3750.00	0.64	1.49
4048.00	0.84	1.81
4750.00	1.73	2.73
5750.00	3.22	4.18
7000.00	4.60	6.05



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