

Ceramic High Pass Filter

HFCN-1300+ HFCN-1300

50Ω 1400 to 5000 MHz



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. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Features

- low cost
- small size
- 7 sections
- temperature stable
- excellent power handling, 7W
- hermetically sealed

Applications

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

CASE STYLE: FV1206

Model	Price	Qty.
HFCN-1300+	\$1.99	(10-49)
HFCN-1300	\$1.99	(10-49)
HFCN-1300D+	\$2.49	(10-49)
HFCN-1300D	\$2.49	(10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

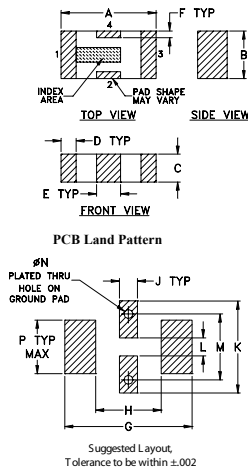
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

STOP BAND (MHz) Min.		f _{co} , MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.	POWER INPUT (W)	NO. OF SECTIONS
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB) Typ.	(loss < 1.3 dB) Max.	(loss < 2 dB) Typ.	Frequency (MHz) Stopband 1.5:1		
690	930	1300	1510-4000	1400-5000	20:1 1400-4000	7	7

1. For applications requiring DC voltage to be applied to the Input or output, use HFCN-1300D (DC Resistance to ground is 100 Mohms min.)

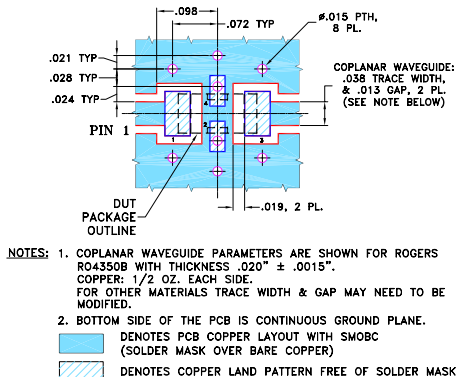
Outline Drawing



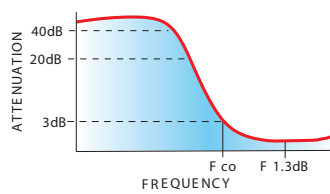
Outline Dimensions (inch)

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

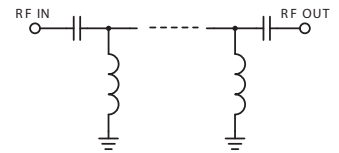
Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



typical frequency response

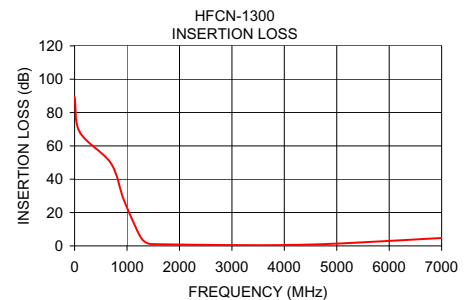
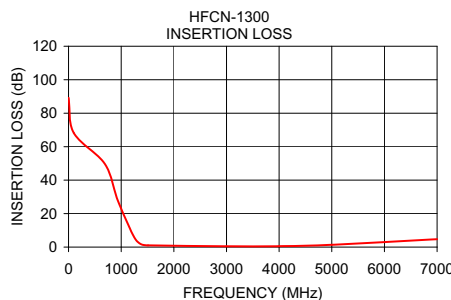


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	89.20	868.59
100.00	68.18	868.59
690.00	49.67	72.39
930.00	28.30	39.49
1150.00	12.20	14.74
1230.00	6.92	7.11
1300.00	3.49	3.39
1400.00	1.44	1.61
1510.00	1.01	1.36
3000.00	0.51	1.34
4000.00	0.53	1.25
5000.00	1.39	2.32
7000.00	4.70	6.24



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IF/RF MICROWAVE COMPONENTS

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