

Ceramic High Pass Filter

HFCN-880+ HFCN-880

50Ω 950 to 3200 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-880+	\$1.99	(10-49)
HFCN-880	\$1.99	(10-49)
HFCN-880D+	\$2.49	(10-49)
HFCN-880D	\$2.49	(10-49)

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

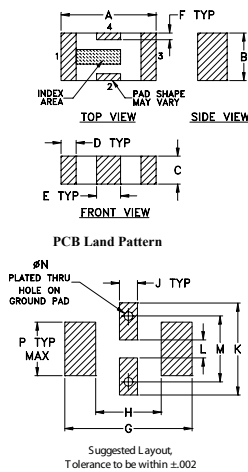
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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		
500	640	880	1060-2500	950-3200	20:1	970-2400	7

1. For applications requiring DC voltage to be applied to the Input or output, use HFCN-880D (DC Resistance to ground is 100 Mohms min.)

Outline Drawing

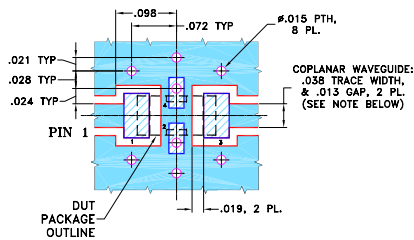


Outline Dimensions (inch)

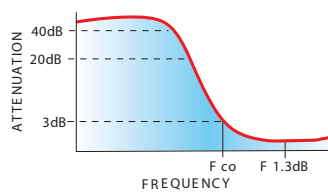
A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

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

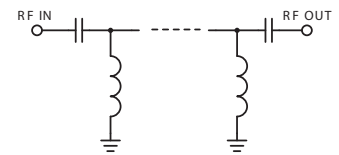
Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



typical frequency response

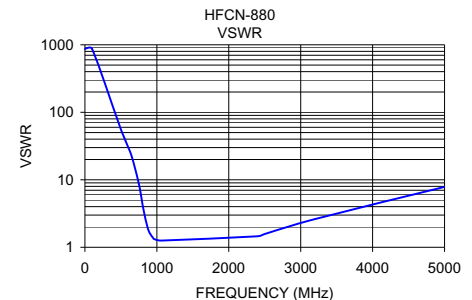
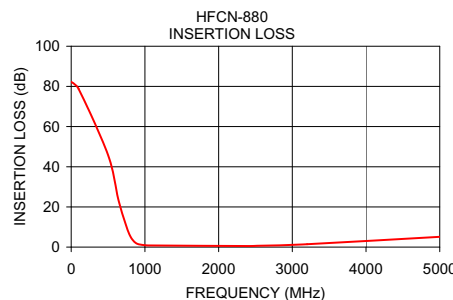


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	82.28	868.59
100.00	78.78	868.59
500.00	45.84	56.04
640.00	23.68	24.14
750.00	10.22	8.68
810.00	4.85	3.84
880.00	1.97	1.83
950.00	1.17	1.36
970.00	1.06	1.32
1060.00	0.83	1.26
2400.00	0.52	1.46
2500.00	0.60	1.58
3200.00	1.42	2.62
5000.00	5.12	7.87



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IF/RF MICROWAVE COMPONENTS

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