

Ceramic High Pass Filter

3000 to 7000 MHz

Maximum Ratings

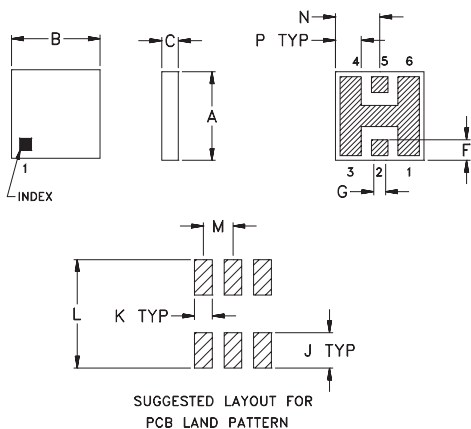
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C

Pin Connections

RF IN	2**
RF OUT	5**
GROUND	1,3,4,6

** RF IN & RF OUT can be interchanged

Outline Drawing

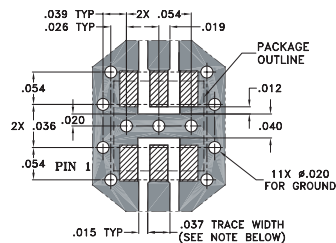


TOLERANCE UNLESS OTHERWISE STATED
2 PLACES DECIMAL: ±.01
3 PLACES DECIMAL: ±.005

Outline Dimensions (inch)

A	B	C	D	E	F	G
.150	.150	.028	—	—	.035	.028
3.81	3.81	0.71	—	—	0.89	0.71
H	J	K	L	M	N	P
—	.060	.030	.184	.050	.075	.044
—	1.52	0.76	4.67	1.27	1.91	1.12
						wt.
						grams
						0.15

Demo Board MCL P/N: TB-233
Suggested PCB Layout (PL-112)

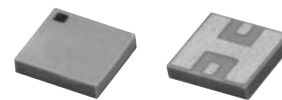


NOTE: TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

■ DENOTES PCB COPPER LAYOUT
▨ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- miniature size, 0.15"X0.15"X.028"
- low profile, .028" height
- low pass band insertion loss, 1.0 dB typ.
- high power handling, 10W



BLUE CELL™

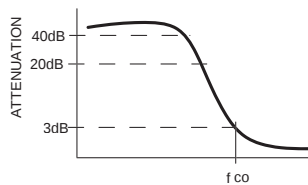
CASE STYLE: FR933
PRICE: \$3.75 ea. QTY (10-49)

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

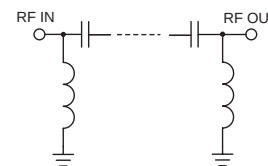
MODEL NO.	STOP BAND (MHz)		f _{co} , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR (:1)		POWER INPUT* (W)	MARKING	NO. OF SECTIONS
	(loss > 40 dB)	(loss > 20 dB)			Stopband Typ.	Passband Typ.			
HFTC-26	DC-1450	2000	2570	3000-7000	18	1.5	10	HF11	7

* Derate linearly to 4W at 100°C ambient

typical frequency response

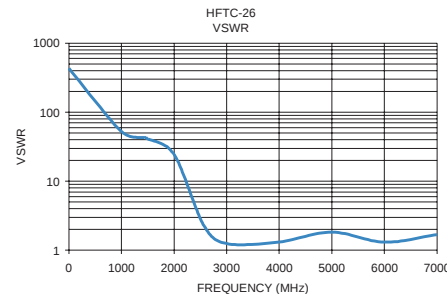
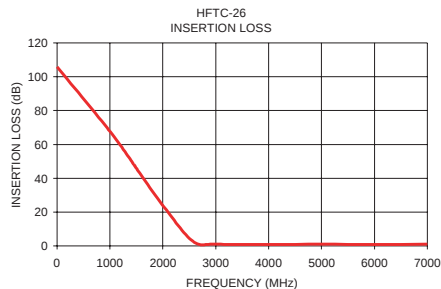


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	105.97	432.30
1000.00	67.80	52.62
1450.00	48.22	42.68
1500.00	45.84	41.34
2000.00	23.99	24.50
2570.00	2.59	2.26
3000.00	1.02	1.25
4000.00	0.71	1.32
5000.00	0.99	1.83
6000.00	0.70	1.31
7000.00	0.94	1.69



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