

Ceramic High Pass Filter

NEW!

HFTC-16

1900 to 2700 MHz

Maximum Ratings

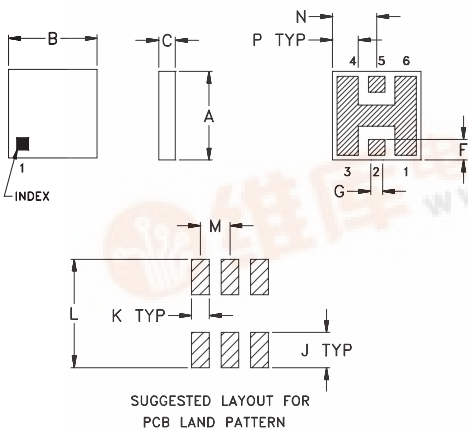
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C

Pin Connections

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

** RF IN & RF OUT can be interchanged

Outline Drawing

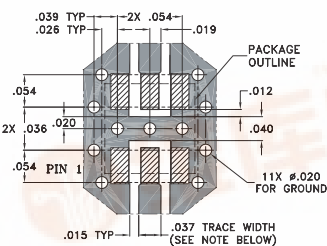


TOLERANCE UNLESS OTHERWISE STATED
 2 PLACES DECIMAL: ±.01
 3 PLACES DECIMAL: ±.005

Outline Dimensions (inch/mm)

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	wt.
—	.060	.030	.184	.050	.075	.044	grams
—	1.52	0.76	4.67	1.27	1.91	1.12	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.

① DENOTES PCB COPPER LAYOUT
 ② 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, 14W



BLUE CELL™

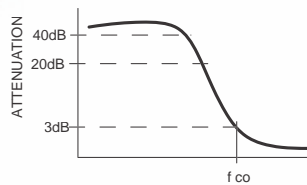
CASE STYLE: FR933
 PRICE: \$3.75 ea. QTY (10-49)

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

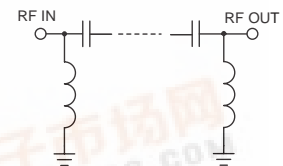
MODEL NO.	STOP BAND (MHz)		f _{co} , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR (:1)		POWER INPUT* (W)	MARKING	NO. OF SECTIONS
	(loss > 40 dB)	(loss > 20 dB)			Stopband Typ.	Passband Typ.			
HFTC-16	DC-1030	1300	1580	1900-2700	18	1.3	14	HF2	7

* Derate linearly to 6W at 100°C ambient

typical frequency response



schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	104.25	384.41
1030.00	44.43	40.06
1300.00	23.10	21.36
1580.00	3.03	1.89
1900.00	1.06	1.12
2900.00	1.18	2.10
4000.00	1.64	2.86
6500.00	0.84	1.29
8000.00	1.84	2.88
9000.00	1.50	1.66

