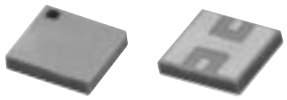
Ceramic

High Pass Filter

NEW!

HFTC-39

4500 to 5500 MHz



BLUE CELL™

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

Maximum Ratings

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

Features

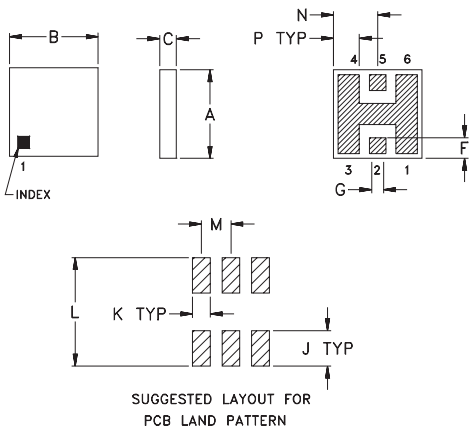
- miniature size, 0.15"X0.15"X.028"
- low profile, .028" height
- low pass band insertion loss, 1.0 dB typ.
- high power handling, 10W

Pin Connections

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

** RF IN & RF OUT can be interchanged

Outline Drawing



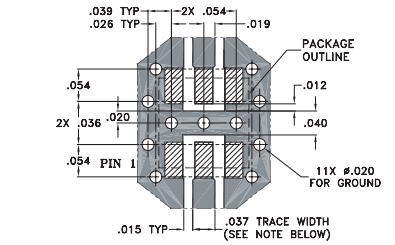
TOLERANCE UNLESS OTHERWISE STATED
2 PLACES DECIMAL: ±.01
3 PLACES DECIMAL: ±.005

Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.150	.150	.028	ó	ó	.035	.028
3.81	3.81	0.71	—	—	0.89	0.71

H	J	K	L	M	N	P	wt.
ó	.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.

DENOTES PCB COPPER LAYOUT

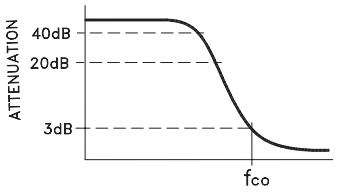
DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

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

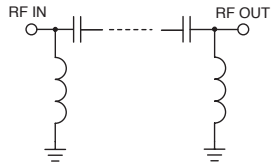
MODEL NO.	STOP BAND (MHz) (loss >40 dB)	(loss >20 dB)	fco, MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR (:1) Stopband Typ.	Passband Typ.	POWER INPUT* (W)	MARKING	NO. OF SECTIONS
HFTC-39	DC-1900	3050	3900	4600-5500	18	1.4	10	HF12	7

* Derate linearly to 4W at 100°C ambient

typical frequency response

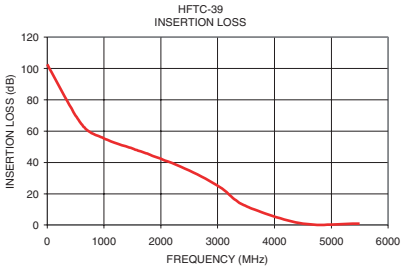


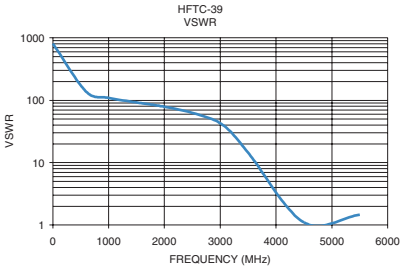
schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	102.75	810.23
600.00	64.59	136.92
1000.00	55.35	109.48
1500.00	48.85	92.42
1900.00	43.70	81.79
2500.00	34.87	62.84
3050.00	24.00	40.15
3500.00	12.11	14.49
4500.00	0.97	1.10
5500.00	0.98	1.47





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