

# Ceramic High Pass Filter

50Ω 3000 to 7000 MHz

## HFTC-26+ HFTC-26



### Maximum Ratings

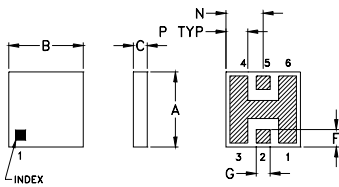
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C

### Pin Connections

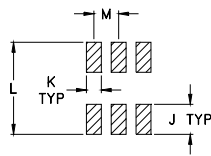
RF IN	2**
RF OUT	5**
GROUND	1,3,4,6

\*\* RF IN & RF OUT can be interchanged

### Outline Drawing



### PCB Land Pattern

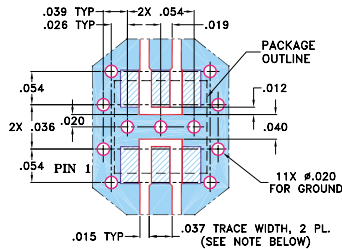


Suggested Layout,  
Tolerance to be within ±.002

### Outline Dimensions (inch)

A	B	C	D	E	F	G	H
.150	.150	.028	--	--	.035	.028	--
3.81	3.81	0.71	--	--	0.89	0.71	--
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)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.  
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.  
■ DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)  
■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

### Features

- miniature size, 0.15"X0.15"
- low profile, 0.028" height
- low pass-band insertion loss, 1.0 dB typ.
- excellent input power handling, 10W
- hermetically sealed

### Applications

- sub-harmonic rejection
- transmitters/receivers
- dc blocking

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

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

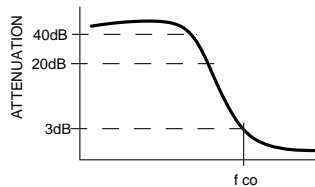
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Electrical Specifications (T<sub>AMB</sub>=25°C)

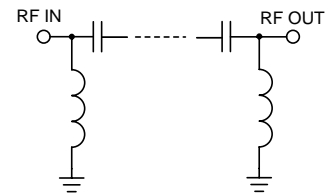
STOP BAND (MHz)	f <sub>co</sub> , MHz Nom.	PASSBAND (MHz)	VSWR (:1)		POWER INPUT* (W)	MARKING	NO. OF SECTIONS
			Stopband	Passband			
(loss > 40 dB)	(loss > 20 dB)	Typ.	Typ.	Typ.			
DC-1450	2000	2570	18	1.5	10	HF11	7

\* Derate linearly to 4W at 100°C ambient.

### typical frequency response

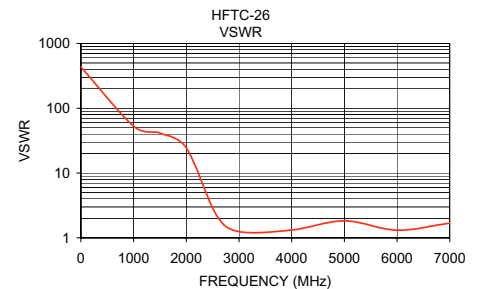
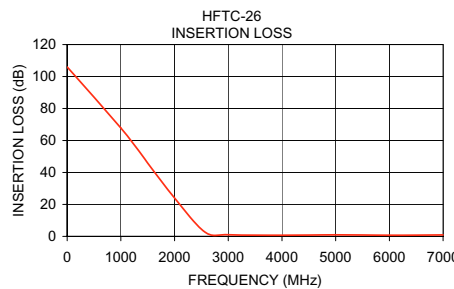


### electrical schematic



### 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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RF/IF MICROWAVE COMPONENTS

REV. F  
M102713  
HFTC-26  
EDB-020615  
WZ/RS/CP  
061229