

Ceramic High Pass Filter

HFTC-16+ HFTC-16

50Ω 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

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, 14W
- hermetically sealed

Applications

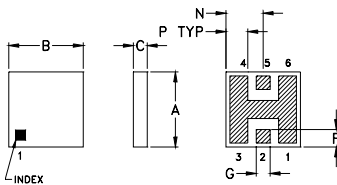
- sub-harmonic rejection
- transmitters/receivers
- dc blocking

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

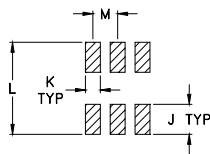
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Outline Drawing



PCB Land Pattern

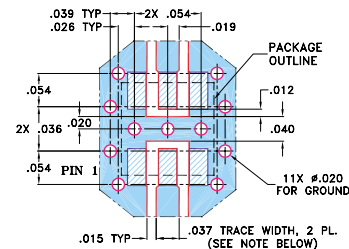


Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

()	()	(-)	(-)	(-)	(-)	(-)	(-)	(-)
(-)	(-)	(0)	(0)	(0)	(0)	(- 1)	(0)	(0)
2	3	4	5	6	7	8	9	10
()	()	()	()	()	()	()	()	()
()	(0)	(0)	(0)	(1)	()	()	()	()

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



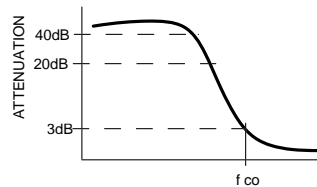
- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
■ DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)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

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

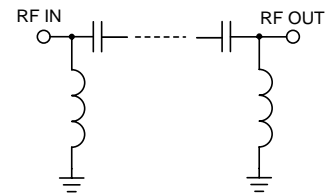
STOP BAND (MHz)	f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR (:1)		POWER INPUT* (W)	MARKING	NO. OF SECTIONS
			Stopband	Passband			
(loss > 40 dB)	(loss > 20 dB)	Typ.	Typ.	Typ.			
DC-1030	1300	1580	18	1.3	14	HF2	7

* Derate linearly to 6W at 100°C ambient.

typical frequency response

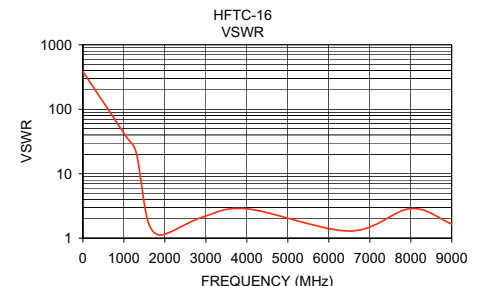
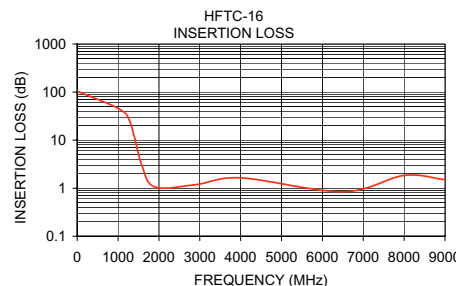


electrical schematic



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



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RF/IF MICROWAVE COMPONENTS

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