High Pass Filter

HFTC-19+

50Ω

2300 to 5500 MHz

Maximum Ratings

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

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

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

Features

- miniature size, 0.15"X0.15"X0.034"
- low profile, 0.034" 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

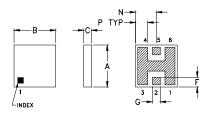
+RoHS Compliant

CASE STYLE: FR933

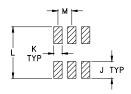
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Outline Drawing



PCB Land Pattern

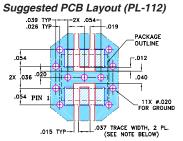


Suggested Layout,

Outline Dimensions (inch)

Α	В	С	D	E	F	G	Н
.150	.150	.034			.035	.028	
3.81	3.81	0.86			0.89	0.71	
	I/		1.4	N.I.	В		
J	K	L	M	N	Р		wt
J .060	.030	L .184	M .050	N .075	P .044		wt grams
-		.184			P .044 1.12		

Demo Board MCL P/N: TB-233



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.

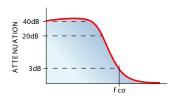
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Electrical Specifications¹ (T_{AMB}=25°C)

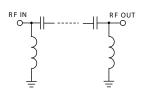
STOP (MI		fco, MHz Nom.	PASSBAND (MHz)	VSWR (:1)		POWER INPUT*	MARKING	NO. OF SECTIONS
		(loss 3 dB)		Stopband	Passband	(W)		
(loss > 40 dB)	(loss > 20 dB)	Тур.	(loss < 1.3 dB)	Тур.	Тур.			
DC-1450	1650	1995	2300-5500	18	1.3	10	HF6	7

- * Derate linearly to 4W at 100°C ambient.
- 1. Measured on Mini-Circuits Characterization Test Board TB-233

typical frequency response

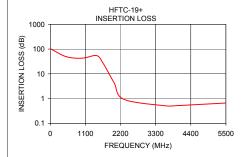


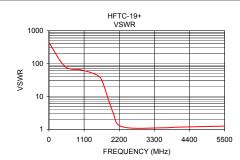
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
1.00	103.75	436.58	
500.00	49.23	81.78	
1000.00	42.91	64.39	
1450.00	54.47	47.42	
1650.00	27.32	32.07	
1995.00	4.42	3.50	
2300.00	0.94	1.19	
3600.00	0.51	1.11	
4000.00	0.52	1.16	
5500.00	0.66	1.25	





- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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