High Pass Filter

HFCN-2700AD+

50Ω

2900 to 8700 MHz

Maximum Ratings

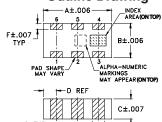
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC

*Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

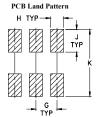
Pin Connections

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

Outline Drawing





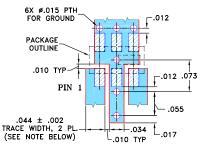


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

F	Е	D	С	В	Α
.011	.022	.024	.035	.063	.126
0.28	0.56	0.61	0.89	1.60	3.20
wt		K	J	Н	G
grams		.123	.042	.024	.039
.020		3.12	1.07	0.61	0.99

Demo Board MCL P/N: TB-285 Suggested PCB Layout (PL-158)



NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS: .020 \pm .0015; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT

DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- Low cost
- Small size
- 5 sections
- Temperature stable
- Excellent power handling, 7WHermetically sealed LTCC construction

Protected by US Patent 7,760,485

Applications

- Sub-harmonic rejection
- Transmitters / receivers

Generic photo used for illustration purposes only

CASE STYLE: FV1206-1

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

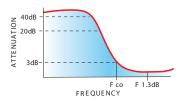


Electrical Specifications^{1,2} at 25°C

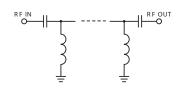
STOPBAND		fco, MHz	PASSBAND		vs	SWR	POWER	NO. OF	
(MF	lz)	Nom.	(MH	łz)	T	yp.	INPUT	SECTIONS	
_						Frequency	(W)		
(Loss > 30dB)	Loss > 20dB)	(Loss 3 dB)	(Loss < 1.5dB)	(Loss < 2dB)		(MHz)			
Тур.	Min.	Тур.	Max.	Max.	Stopband	1.5:1	Max.		
2270	2150	2700	3070-8500	2900-8700	20:1	3400-9000	7	5	

- 1. DC Resistance to ground is 100 Mohms min.
- 2. Measured on Mini-Circuits Characterization Test Board TB-285.

typical frequency response

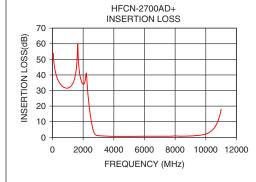


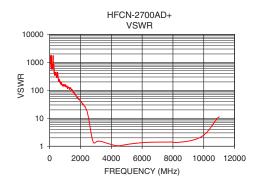
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	53.91	1737.18
240	40.00	1737.18
1000	31.58	157.93
1650	60.06	69.49
2150	37.69	32.79
2270	32.83	27.16
2700	3.27	2.72
3000	1.04	1.40
3070	1.00	1.47
3400	0.82	1.46
6000	0.66	1.34
8500	0.73	1.40
8700	0.77	1.44
9000	0.87	1.52
10000	2.13	2.49
11000	18.01	11.31





- 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.

 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.ninicircuits.com/MCLStore/terms.jsp

REV. B

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