Ceramic **High Pass Filter**

50Ω

2000 to 5200 MHz

Features low cost small size

7 sections

• temperature stable hermetically sealed

LTCC construction

 sub-harmonic rejection • transmitters/receivers

20dE

3dB

Applications

lab use

excellent power handling, 7W

Maximum Ratings

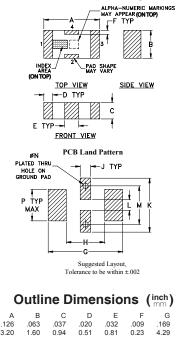
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
* Passband rating, derate linearly to 3	3W at 100°C ambient.

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

Pin Connections

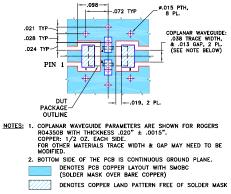
RF IN	1
RF OUT	3
GBOUND	24

Outline Drawing



Р н М N .087 .024 .122 .024 .087 .012 .071 grams 2.21 0.61 3.10 0.61 2.21 0.30 1.80 .020 Demo Board MCL P/N: TB-270

Suggested PCB Layout (PL-137)



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 Circuitto and leather than the specification document. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

REV. J M151107 HFCN-1910 EDR-6437/7 RVN/AD/CP/AM 150729 Page 1 of 1

HFCN-1910+ HFCN-1910



CASE STYLE: FV1206



Electrical Specifications^(1,2) at 25°C

STOP BAND (MHz) Min.	fco, MHz Nom.	PASSI (Mł			R (:1) /p. Frequency	POWER INPUT (W)	NO. OF SECTIONS
	(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		(MHz)		
(loss > 40 dB) (loss > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
1075 1400	1910	2200-4400	2000-5200	20:1	2100-4500	7	7

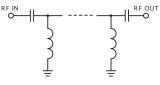
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, Mini-Circuits' "D" suffix version of this model will provide>100 MOhm isolation to ground.

(2) Measured on Mini-Circuits Characterization Test Board TB-270.

typical frequency response 40dB **ATTENUATION**

F 1.3dB

electrical schematic



F co FREQUENCY Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
1.00	90.73	1737.18		
50.00	75.59	1737.18		
500.00	63.78	248.17		
1040.00	50.40	72.39		
1400.00	25.38	34.75		
1840.00	2.89	2.89		
1910.00	1.73	1.90		
2050.00	0.97	1.29		
2100.00	0.87	1.23		
2200.00	0.75	1.18		
3500.00	0.48	1.11		
4400.00	0.67	1.42		
4500.00	0.76	1.51		
5200.00	1.37	2.19		
7000.00	4.34	5.44		



