Ceramic **High Pass Filter**

50Ω

780 to 2800 MHz

Features

• temperature stable

hermetically sealed

LTCC construction

sub-harmonic rejection

• transmitters/receivers

Applications

lab use

excellent power handling, 7W

 low cost small size 7 sections

Maximum Ratings

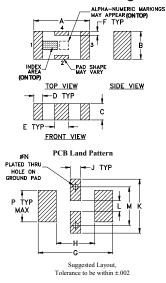
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
* Passband rating, derate linearly to 3	3W at 100°C ambient.

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2.4

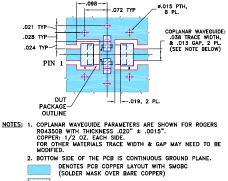
Outline Drawing



Outline Dimensions (inch)

	G	F	E	D	С	В	A
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt	P	N	M	L	K	J	н
grams	.071	.012	.087	.024	.122	.024	.087
.020	1.80	0.30	2.21	0.61	3.10	0.61	2.21

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Notes

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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

REV. H M151107 HFCN-740 EDB-6251/2 AD/RS/CP/AM 150729 Page 1 of 1

HFCN-740+ **HFCN-740**



CASE STYLE: FV1206

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



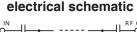
Electrical Specifications^(1,2) at 25°C

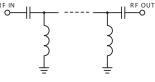
STOP BA (MHz) Min.		fco, MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.		POWER INPUT (W)	NO. OF SECTIONS
		(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)		
(loss > 40 dB) (lo	oss > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
430	550	740	900-2200	780-2800	20:1	780-1900	7	7

(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 ATTE NUATION 20dB 3dB Fco F 1.3dB FREQUENCY





Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	94.42	1737.18
100.00	64.99	579.06
430.00	48.94	52.65
550.00	23.85	22.87
740.00	2.10	1.81
780.00	1.40	1.40
900.00	0.88	1.28
1900.00	0.48	1.42
2200.00	0.79	1.89
2800.00	1.81	3.19
3200.00	2.81	4.44
4000.00	4.94	8.05

