Ceramic **High Pass Filter**

50Ω

780 to 2800 MHz

Maximum Ratings

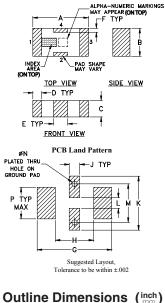
Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
RF Power Input*	7W max. at 25°C				
Max. DC Voltage at pins 1&3 25 VDC					
* Passband rating, derate linearly to 3W at 100°C ambient					

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

Pin Connections

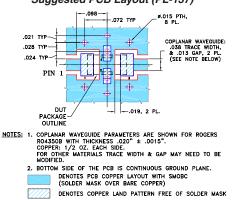
RF IN	11
RF OUT	3
GROUND	2,4

Outline Drawing



	G	F	E	D	С	В	Α
	.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)



7 sections

• temperature stable hermetically sealed

Features

 low cost small size

- LTCC construction
- excellent power handling, 7W

Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use





Generic photo used for illustration purposes only CASE STYLE: FV1206

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

> Available Tape and Reel at no extra cost Reel Size Devices/Reel 20, 50, 100, 200, 500, 1000, 3000

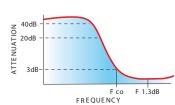
Electrical Specifications^{1,2} at 25°C

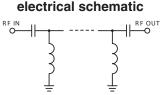
STOP BAN (MHz) Min.	ID	fco, MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ. Frequency		POWER INPUT (W)	NO. OF SECTIONS
		(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		(MHz)		
(loss > 40 dB) (loss	s > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
430	550	740	900-2200	780-2800	20:1	780-1900	7	7

1. DC Resistance to ground is 100 Mohms min.

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

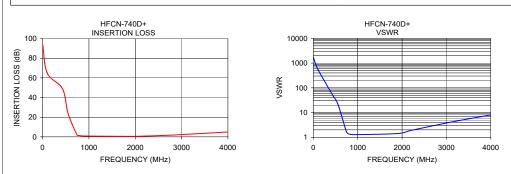
typical frequency response





Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
1.00	94.42	1737.18		
100.00	94.42 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		



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

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