

Ceramic

Low Pass Filter

50Ω

DC to 1525 MHz

LFCN-1525D+



CASE STYLE: FV1206

Maximum Ratings

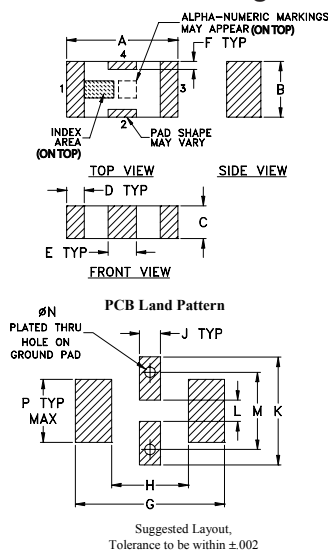
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max. at 25°C

* Derate linearly to 3.5W 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

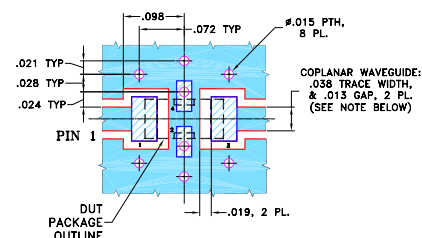


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.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)



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-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

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

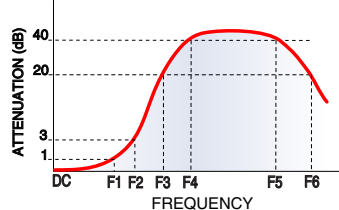
Electrical Specifications^{1,2} at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-1525	—	—	dB
	Freq. Cut-Off	F2	1750	—	3.0	dB
	VSWR	DC-F1	DC-1525	—	1.2	:1
Stop Band	Rejection Loss	F3	2150	—	—	dB
		F4-F5	2450-6600	—	40	dB
	VSWR	F6	6700	—	20	dB
		F3-F6	2150-6700	—	20	:1

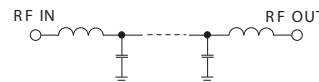
(1) DC Resistance to ground is 100 Mohms min.

(2) Measured on Mini-Circuit's Characterization Test Board TB-270.

Typical Frequency Response



Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.02	1.01
1000.00	0.41	1.15
1500.00	0.78	1.16
1600.00	0.99	1.22
1700.00	1.45	1.42
1750.00	1.92	1.64
1800.00	2.79	2.09
1850.00	4.37	2.93
1900.00	6.94	4.40
1950.00	10.49	6.49
2000.00	14.80	8.77
3000.00	36.58	22.29
5000.00	44.42	49.64
6000.00	47.89	45.72
7000.00	24.49	16.72

