

LTCC 低通滤波器 (Low Pass Filter)

HT-LFCN-530+

Features

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

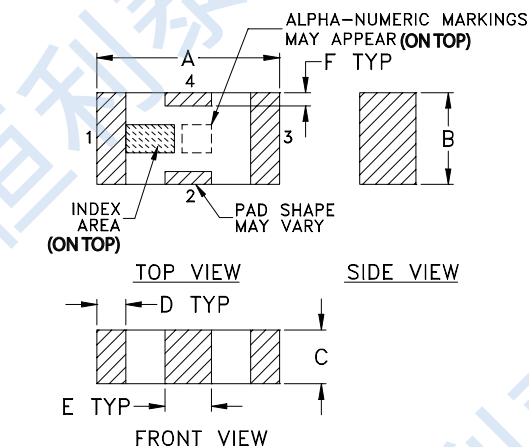
Applications

- Harmonic rejection.
- VHF/UHF transmitters/receivers.
- Lab use.

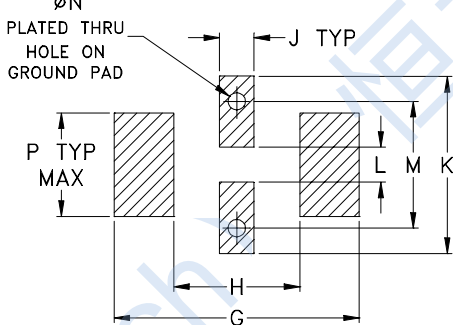
Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



PCB Land Pattern

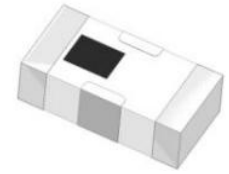
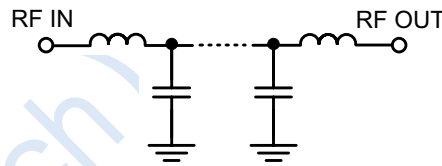


Outline Dimensions : inch mm

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

Functional Schematic



50 Ω
DC to 530MHz

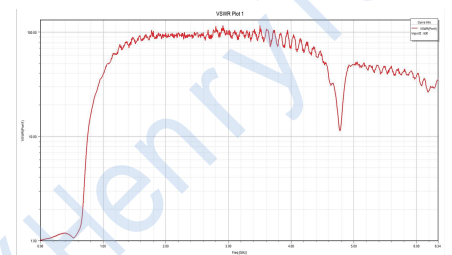
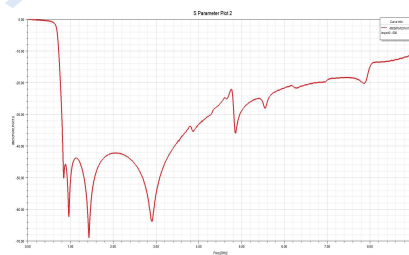
Electrical Specifications(1) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units	
Passband	Insertion Loss	DC-530	—	—	1.2	dB
	Freq. Cut-Off	700	—	3.0	—	dB
	VSWR	DC-530	—	1.2	—	: 1
Stop Band	Rejection Loss	820	20	—	—	dB
		945-3000	—	40	—	
	VSWR	6000	—	20	—	: 1
		820-6000	—	20	—	

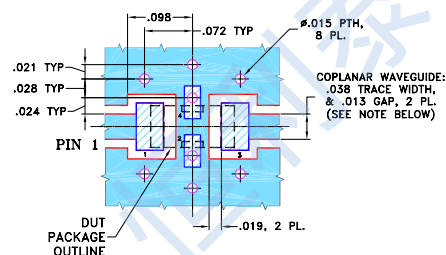
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25°C

FREQUENCY (Mhz)	INSERTION LOSS (dB)	Return Loss (dB)
1.00	0.04	1.02
100.00	0.14	1.05
500.00	0.58	1.10
530.00	0.67	1.07
670.00	2.94	1.94
700.00	5.57	3.29
815.00	38.53	17.39
820.00	41.07	18.13
945.00	57.12	33.97
1315.00	49.99	70.25
2140.00	42.29	89.95
3000.00	54.77	101.81
3640.00	36.42	97.23
4910.00	31.92	45.83
6000.00	21.68	38.79



Suggested PCB Layout



Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	8.5W at 25°C

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