# LTCC 低通滤波器 (Low Pass Filter)

# HT-LFCN-2500+

### **Features**

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

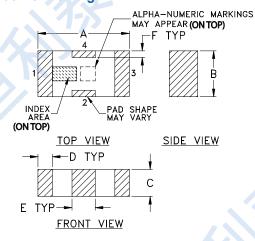
### **Applications**

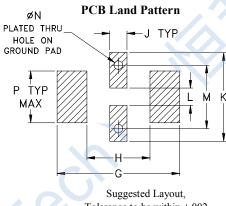
- Harmonic rejection.
- VHF/UHF transmitters/receivers.
- Lab use.

#### **Pad Connections**

RF IN	1
RF OUT	3
GROUND	2,4

## **Outline Drawing**





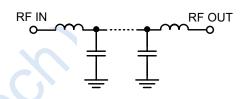
Tolerance to be within ±.002

# **Outline Dimensions: inch**

4		mm					
Α	В	С	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	
Н	J	K	L	М	N	Р	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

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### **Functional Schematic**





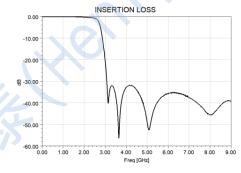
 $50 \Omega$  DC to  $2500 \mathrm{MHz}$ 

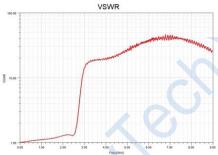
## Electrical Specifications(1) at 25°C

Parameter		Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-2500			1.0	dB
Pass Band	Freq. Cut-Off	2710	_	3.0	_	dB
	Return Loss	DC-2500	14	20		dB
	Rejection Loss	3675	20		ı	dB
Stop Band		3800-6100	30	_	_	
		8000	20	_		

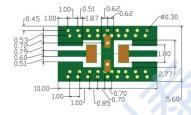
<sup>1.</sup>In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

## Typical Performance Data at 25°C





### **Suggested PCB Layout**



NOTES: 1. COPLANAR WAYEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .0015". COPPER: 1/2 0.2 EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BI MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC
(SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

### **Maximum Ratings**

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	10W at 25°C

<sup>\*</sup>Permanent damage may occur if any of these limits are