

# Low Pass Filter

## HT-LFCG-1000+



50Ω DC to 1000 MHz

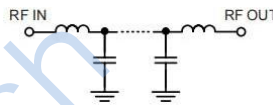
### Features

- Excellent power handling
- small size
- Low loss
- temperature stable
- LTCC construction, and has good moisture resistance, corrosion resistance, high reliability.

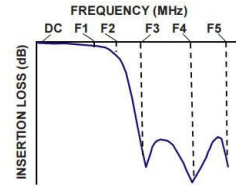
### Applications

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- Base Station/Micro base station of Mobile Communication, Internet of things terminal, lab use.

### Functional Schematic



### Typical Frequency Response



### Electrical Specifications at 25°C

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-1000	-	0.9	1.8	dB
	Freq. Cut-Off	1240	-	3.0	-	dB
	Return Loss	DC-1000	-	21	-	dB
Stop Band	Rejection Loss	1550-1900	20	-	-	dB
		1900-3000	-	35	-	dB
		3000-6000	-	30	-	dB
		6000-10000	-	30	-	dB

### Maximum Ratings

Operating Temperature -55°C to 125°C

Storage Temperature -55°C to 125°C

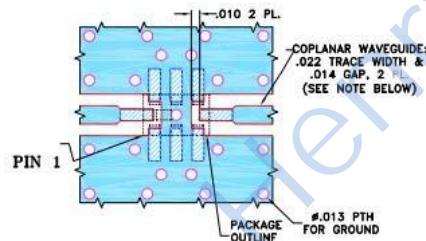
RF Power Input\* 5.5 W max. @25°C

\* Passband rating, derate linearly to 1W at 125°C ambient.  
Permanent damage may occur if any of these limits are exceeded.

### Pad Connections

INPUT	8
OUTPUT	4
GROUND	1,2,3,5,6,7

### Demo Board P/N: CG-2012 Suggested PCB Layout

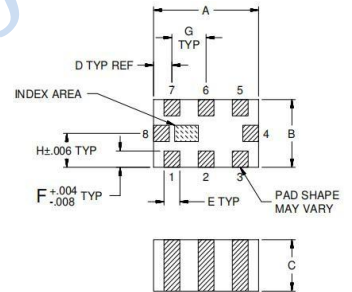


#### NOTES:

1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

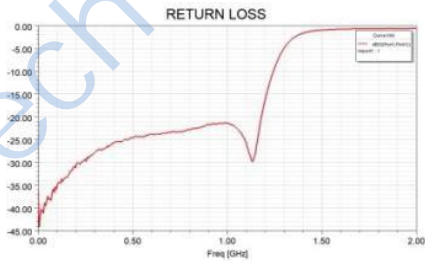
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

### Outline Drawing



### Outline Dimensions: Unit (mm)

A	2.00	E	0.30
B	1.25	F	0.30
C	0.95	G	0.65
D	0.35	wt	0.008g



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