

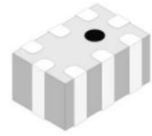
## Features

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

## Applications

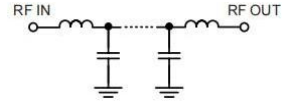
- Harmonic Rejection
- VHF/UHF transmitters / receivers
- Base Station/Micro base station of Mobile Communication , Internet of things terminal、 lab use.

## HT-LFCG-1525+

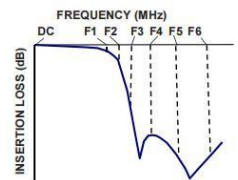


50Ω DC to 1525 MHz

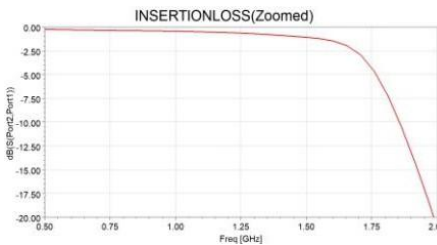
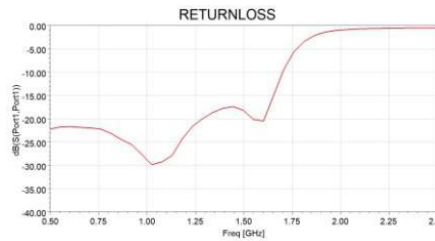
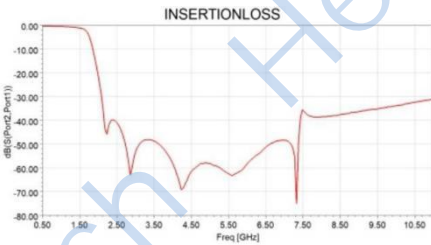
### Functional Schematic



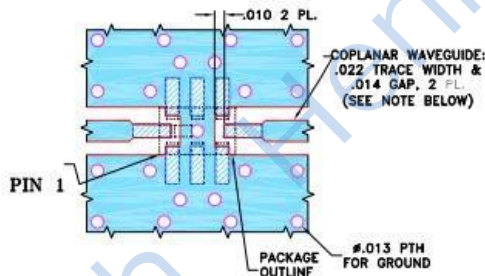
### Typical Frequency Response



Electrical Specifications at 25°C							
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-1525	-	1.5	2.0	dB
	Freq.Cut-Off	F2	1710	-	3.0	-	dB
	Return Loss	DC-F1	DC-1525	-	15	-	dB
Stop Band	Rejection Loss	F3-F4	2125-2350	20	30	-	dB
		F4-F5	2350-2850	30	40	-	dB
		F5-F6	2850-7000	40	50	-	dB
		F6-F7	7000-12000	25	30	-	dB



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



#### NOTES:

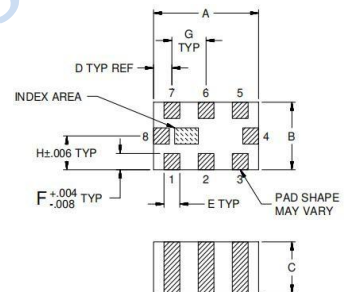
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
  2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
  - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

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

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.

### 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