

Low Pass Filter

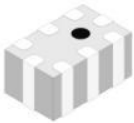
Features

- Excellent power handling
- small size
- Very good rejection,50dB typical
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

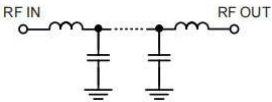
- Harmonic Rejection
- VHF/UHF transmitters / receivers
- Base Station/Micro base station of Mobile Communication , Internet of things terminal、 lab use.

HT-LFCG-490+

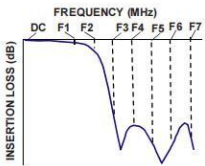


50Ω DC to 490 MHz

Functional Schematic



Typical Frequency Response

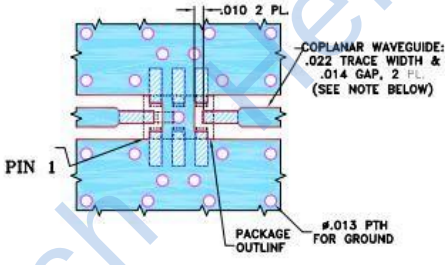
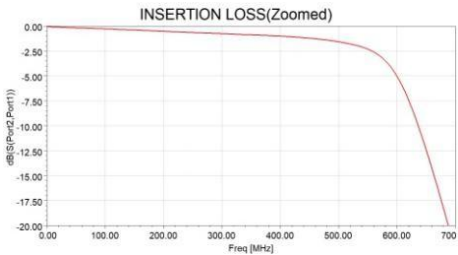


Electrical Specifications at 25°C						
Parameter	F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Band	Insertion Loss	DC-F1	DC-490	-1.5	2.0	dB Pass
	Freq.Cut-Off Loss	F2	570	-3.0	-	dB Return
Stop Band	Rejection Loss	DC-F1	DC-490	-	15	dB
		F3-F4	800-960	20	48	dB
		F4-F5	960-1500	35	50	dB
		F5-F6	1500-3000	35	50	dB
		F6-F7	8000-15000	-	20	dB

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

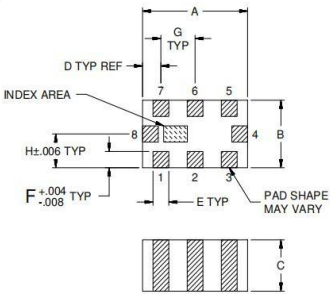
Maximum Ratings	
Operating Temperature	-55°C to 125°C
Storage Temperature	-55°C to 125°C
RF Power Input*	3.5 W max.@25°C
*Passband rating, derate linearly to 0.9W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.	

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