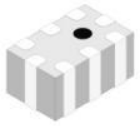
HenryTech

Low Pass Filter

HT-LFCG-490+



50Ω DC to 490 MHz

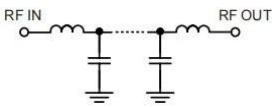
Features

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

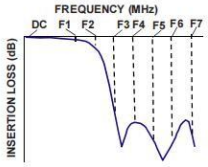
Applications

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

Functional Schematic



Typical Frequency Response



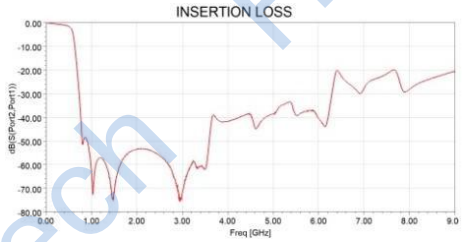
Electrical Specifications at 25°C

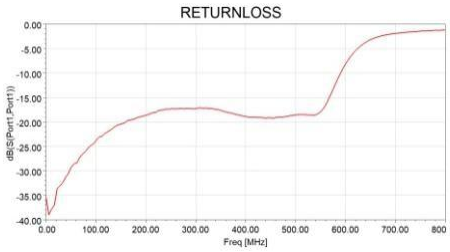
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-490	-1.5	2.0		dB
	Freq.Cut-Off	F2	570	-3.0	-		dB
	Return Loss	DC-F1	DC-490	-	15	-	dB
Stop Band	Rejection Loss	F3-F4	800-960	20	48	-	dB
		F4-F5	960-1500	35	50	-	dB
		F5-F6	1500-3000	35	50	-	dB
		F6-F7	8000-15000	-	20	-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

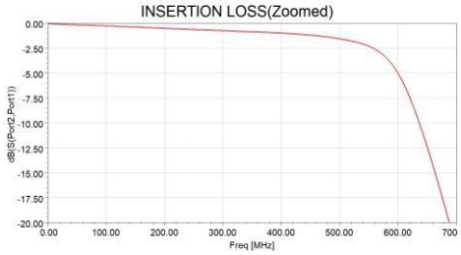
Pad Connections	
INPUT	8
OUTPUT	4
GROUND	1,2,3,5,6,7

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

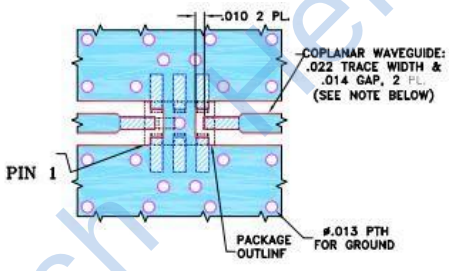
*Passband rating, derate linearly to 0.9W at 125°C ambient
Permanent damage may occur if any of these limits are exceeded.







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

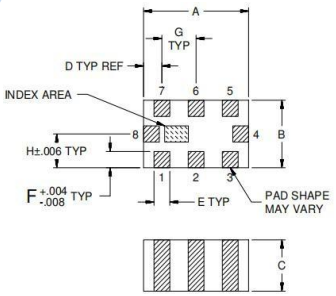


NOTES:
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

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