

Low Pass Filter

HT-LFCG-530+



50Ω DC to 530 MHz

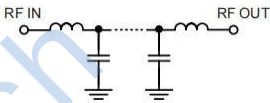
Features

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

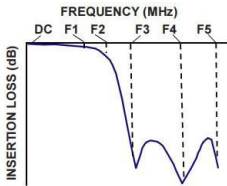
Applications

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- RF suppression for DC lines on PCB
- Anti-aliasing for A/D converter

Functional Schematic



Typical Frequency Response

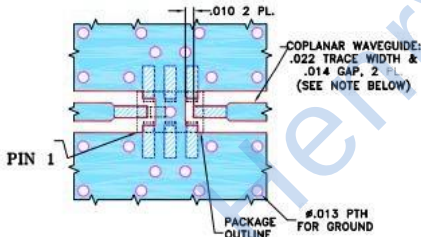


Electrical Specifications at 25°C						
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max. Unit
Pass Band	Insertion Loss	DC-F1	DC-530	-	1.5	1.8 dB
	Freq.Cut-Off	F2	601	-	3.0	- dB
	Return Loss	DC-F1	DC-530	-	14	- dB
Stop Band	Rejection Loss	F3-F4	980-2600	30	50	- dB
		F4-F5	2600-4000	-	40	- dB

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 0.6W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.	



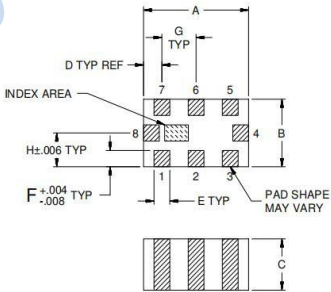
Demo Board P/N: CG-2012
Suggested PCB Layout



- 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.

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

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