

Low Pass Filter

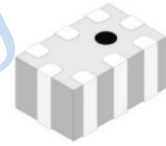
HT-LFCG-1800+

Features

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

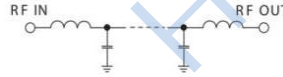
Applications

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

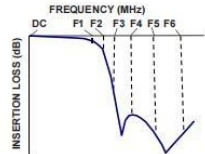


50Ω DC to 1800 MHz

Functional Schematic



Typical Frequency Response



Electrical Specifications at 25°C

Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Insertion Loss	DC-1800	-	1.3	2.2	dB
	Freq.Cut-Off	1240	-	3.0	-	dB
	Return Loss	DC-1800	-	1.3	-	dB
Stop Band	Rejection Loss	2450-2900	20	-	-	dB
		2900-7000	--	35	-	dB
		7000-8500	-	30	-	dB
		10000	-	20	-	dB

Maximum Ratings

Operating Temperature -55°C to 125°C

Storage Temperature -55°C to 125°C

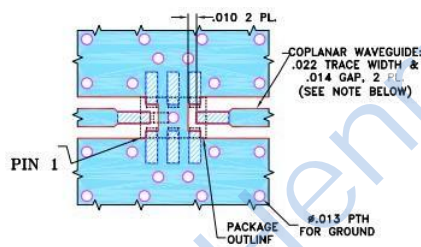
RF Power Input* 5.5 W max.@25°C

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

Pad Connections

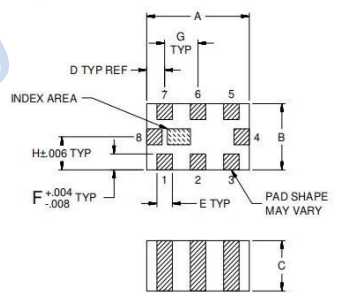
INPUT	8
OUTPUT	4
GROUND	1,2,3,5,6,7

Board P/N: CG-2012 Suggested PCB Layout



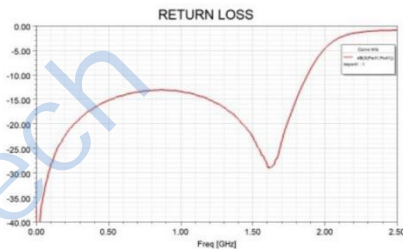
NOTES:

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.



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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