

Features

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

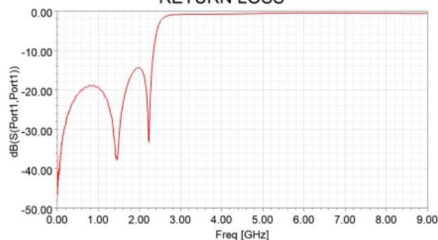
Applications

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

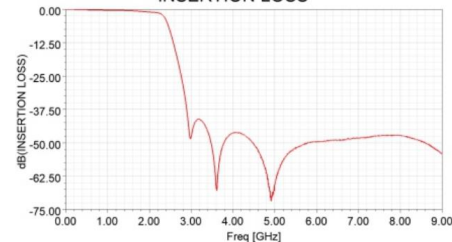
Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-2250	-	1.4	2.0	dB
	Freq.Cut-Off	2360	-	3.0	-	dB
	Return Loss	DC-2250	-	14	-	dB
Stop Band	Rejection Loss	2800-3600	20	25	-	dB
		3600-8000	35	48	-	dB
		8000-15000	-	30	-	dB

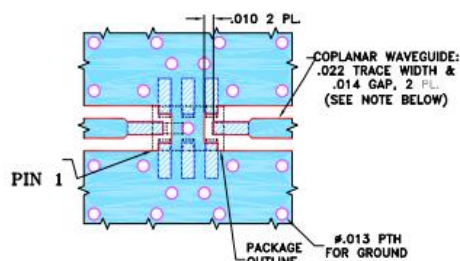
RETURN LOSS



INSERTION LOSS



Suggested PCB Layout

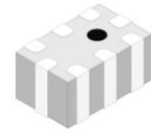


NOTES:

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.

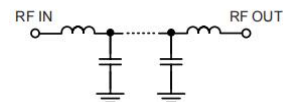
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

JY-LFCG-2250+



50Ω DC to 2250 MHz

Functional Schematic



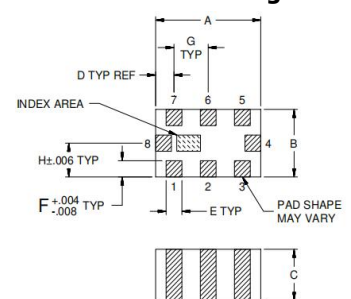
Pad Connections

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*	4.5 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	0.002g