



Features

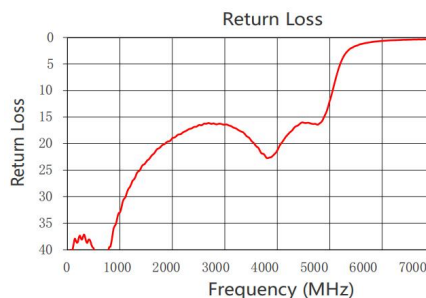
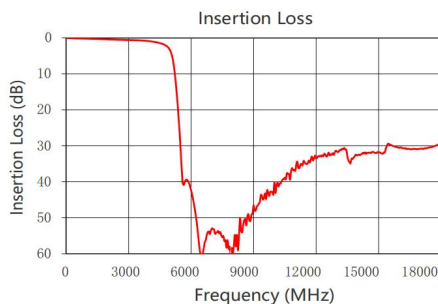
- Excellent power handling
- small size
- Low loss
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

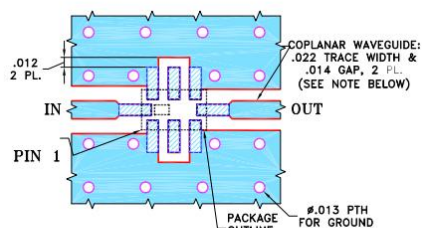
- Harmonic Rejection
- VHF/UHF transmitters / receivers
- Base Station/Micro base station of Mobile Communication, Internet of things terminal, lab use.

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-3900	-	1.3	1.8	dB
	Freq.Cut-Off	5000	-	3.0	-	dB
	Return Loss	DC-3900	-	14	-	dB
Stop Band	Rejection Loss	5800-6200	20	40	-	dB
		6200-8400	35	42	-	dB
		8400-12000	25	48	-	dB
		12000-18000	-	20	-	dB

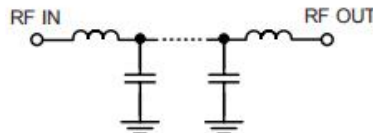


Suggested PCB Layout



- 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.

Functional Schematic



JY-LFCG-3800+



50Ω DC to 3900 MHz

Maximum Ratings

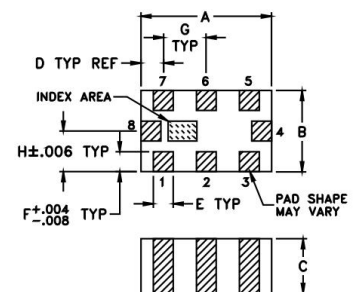
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	4.5 W max.@25°C

*Permanent damage may occur if any of these limits are exceeded.

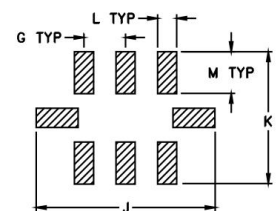
Pad Connections

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

Outline Drawing



PCB Land Pattern



Suggested Layout, Tolerance to be within 0.05

Outline Dimensions: Unit (mm)

A	2.01	B	1.24
C	0.94	D	0.36
E	0.30	F	0.30
G	0.36	H	0.64
J	3.40	K	2.64
L	0.36	M	0.99
wt	0.002g		