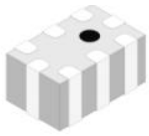
Low Pass Filter

JY-LFCG-3800+



Generic photo used for illustration purposes only

50Ω DC to 3900 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
•Base Station/Micro base station of Mobile Communication、Internet of things terminal、lab use.

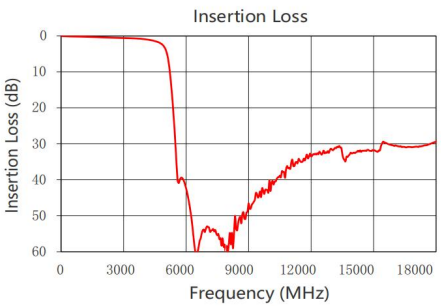
Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	4.5 W max.@25°C

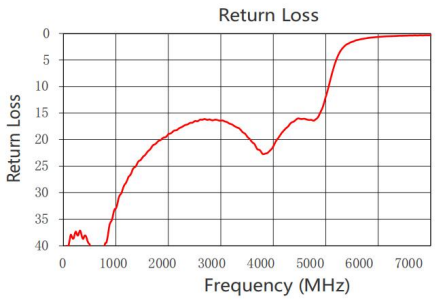
*Permanent damage may occur if any of these limits are exceeded.

Electrical Specifications at 25°C

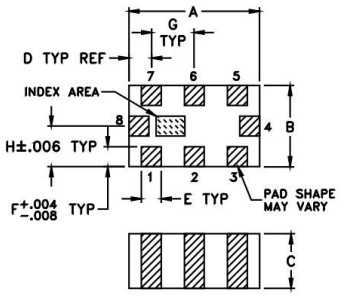
Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-3900	-	1.3	1.8	dB
	Freq.Cut-Off	5000	-	3.0	-	dB
	Return Loss	DC-3900	-	14	-	dB
Stop Band	Rejection Loss	5800-6200	20	40	-	dB
		6200-8400	35	42	-	dB
		8400-12000	25	48	-	dB
		12000-18000	-	20	-	dB

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

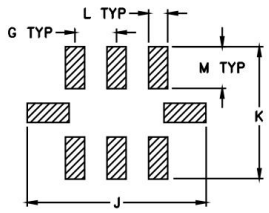




Outline Drawing

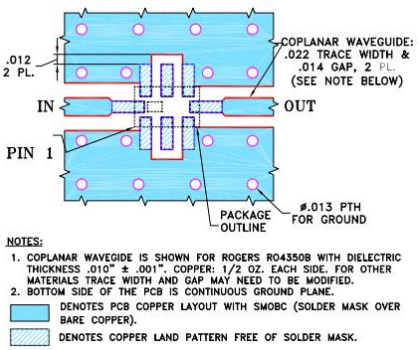


PCB Land Pattern



Suggested Layout
Tolerance to be within ±0.05

Suggested PCB Layout

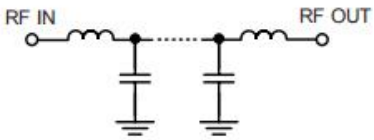


NOTES:
1. COPLANAR WAVEGIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Functional Schematic



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	

JY-LFCG-3800+

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