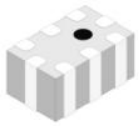
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Low Pass Filter

JY-LFCG-490+

Features
•Excellent power handling
•small size
•Very good rejection,50dB typical
•temperature stable
•LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

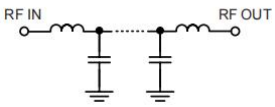
Applications
• Harmonic Rejection
• VHF/UHF transmitters / receivers
•Base Station/Micro base station of Mobile Communication、Internet of things terminal、lab use.



Generic photo used for illustration purposes only

50Ω DC to 490 MHz

Functional Schematic



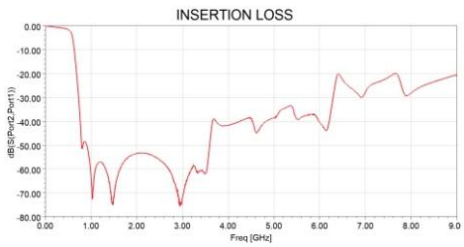
Electrical Specifications at 25°C

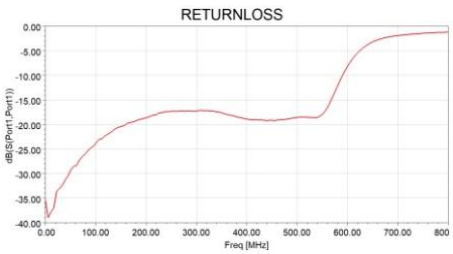
Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-490	-	1.5	2.0	dB
	Freq.Cut-Off	570	-	3.0	-	dB
	Return Loss	DC-490	-	15	-	dB
Stop Band	Rejection Loss	800-960	20	48	-	dB
		960-1500	35	50	-	dB
		1500-3000	35	50	-	dB
		8000-15000	-	20	-	dB

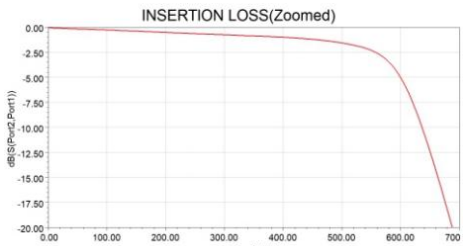
Pad Connections	
INPUT	8
OUTPUT	4
GROUND	1,2,3,5,6,7

Maximum Ratings	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	3.5 W max.@25°C

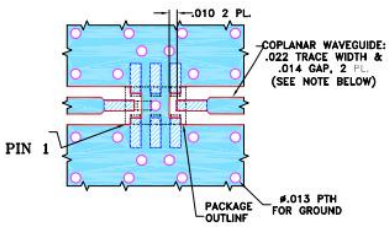
*Passband rating, derate linearly to 0.9W at 125°C ambient
Permanent damage may occur if any of these limits are exceeded.







Suggested PCB Layout

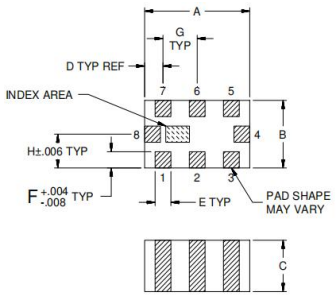


NOTES:
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001", COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Outline Drawing



Suggested Layout
Tolerance to be within ±0.05

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	0.02g

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