Low Pass Filter

JY-LFCG-530+

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

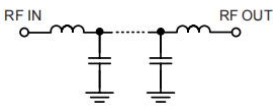
Applications
• Harmonic Rejection
• VHF/UHF transmitters / receivers
• RF suppression for DC lines on PCB
•Anti-aliasing for A/D converter



Generic photo used for illustration purposes only

50Ω DC to 530 MHz

Functional Schematic



Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-530	-	1.5	1.8	dB
	Freq.Cut-Off	601	-	3.0	-	dB
	Return Loss	DC-530	-	14	-	dB
Stop Band	Rejection Loss	980-2600	30	50	-	dB
		2600-4000	-	40	-	dB

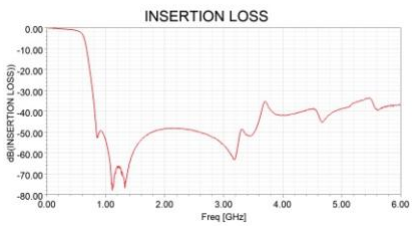
Maximum Ratings

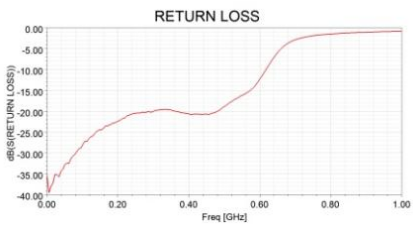
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	3.5 W max.@25°C

*Passband rating, derate linearly to 0.6W at 125°C ambient
Permanent damage may occur if any of these limits are exceeded.

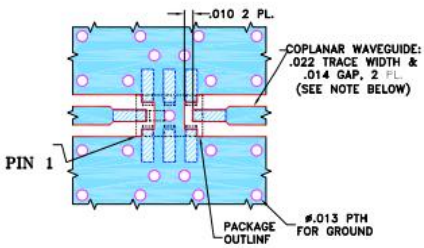
Pad Connections

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





Suggested PCB Layout

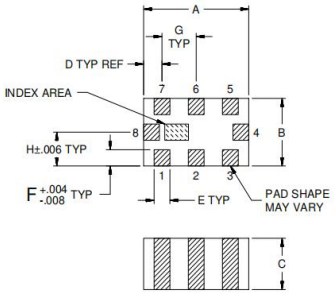


NOTES:
1. COPLANAR WAVEGUIDE IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010" ± .001". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

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	0.002g

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