

Low Pass Filter

WGLL-08400

50Ω DC to 8400 MHz

Ver. A
2025.06.06

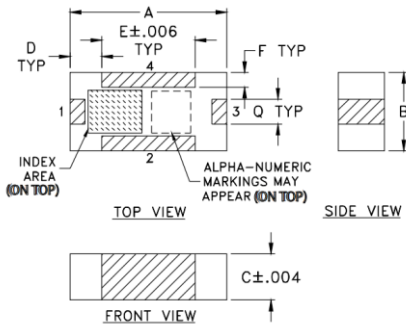
Maximum Rating

Operating Temperature	-55°C~+100°C
Storage Temperature	-55°C~+100°C
RF Input Power	8W max at 25°C

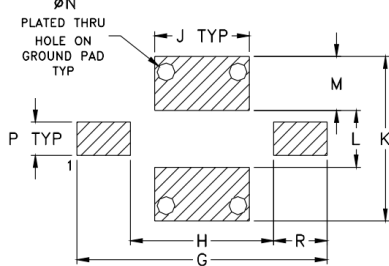
Pin Connections

RF Input	1
RF Output	3
Ground	2,4

Outline Drawing



PCB Land Pattern

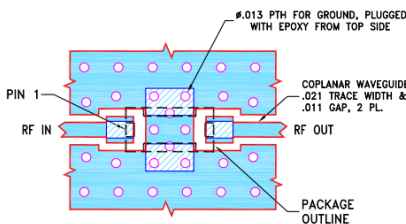


Suggested Layout,
Tolerance to be within ± 0.02

Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J
.126	.063	.037	.026	.075	.012	.182	.104	.069
3.20	1.60	0.94	0.66	1.91	0.30	4.62	2.64	1.75
K	L	M	N	P	Q	R	S	T
.119	.041	.039	.013	.024	.020	.039	.039	.020
3.02	1.04	0.99	0.33	0.61	0.51	0.99	0.99	0.51
								grams

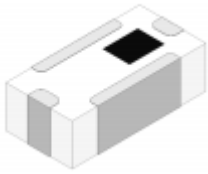
Demo Board MCL P/N: T-11
Suggested PCB Layout (PL-137)



NOTES:
1. TRACE WIDTH & GAP PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010±.001, COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Features

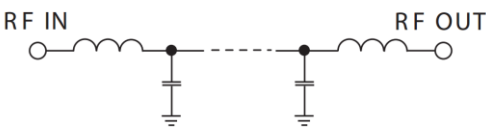
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure



RoHS Compliant

Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



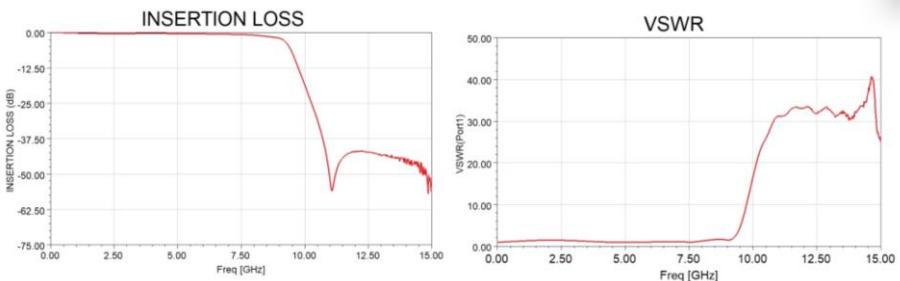
Functional Schematic

Electrical Specifications⁽¹⁾ at 25°C

Parameter		Frequency (MHz)	MIN	Typ.	MAX	Unit
Pass Band	Insertion Loss	DC-8400	-	-	1.6	dB
	Freq. Cut-off	9100	-	3.0	-	dB
	VSWR	DC-8400	-	1.6	-	:1
Stop Band	Rejection Loss	10300	20	30	-	dB
		10300-15000	-	30	-	dB
	VSWR	10300-15000	-	17	-	:1

(1) Tested on Demo Board.

Typical Performance at 25°C



Notes

- The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



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