

**FEATURES**

- Wideband, DC to 8 GHz
- Miniature package, 3x3 mm MCLP™
- Specified to 8 GHz, useable to 10 GHz
- Excellent VSWR, 1.15:1 typ.



Generic photo used for illustration purposes only

CASE STYLE: FG873

+RoHS CompliantThe +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications**APPLICATIONS**

- Cellular
- PCS
- Communications
- Radar
- Defense

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	8	GHz
Attenuation, Nominal			9±0.4		dB
Attenuation, Flatness ¹	DC - 1		0.1		dB
	1 - 5		0.2		
	5 - 8		0.3		
VSWR	DC - 1		1.05	1.2	:1
	1 - 5		1.15	1.3	
	5 - 8		1.3		
Input Power ²				0.5	W

1. Flatness= variation over band divided by 2

2. RF power at 25°C case temperature: ½Watt. Derate linearly to 0.2 Watt at 85°C.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-45°C to +85°C
Storage Temperature	-55°C to +100°C

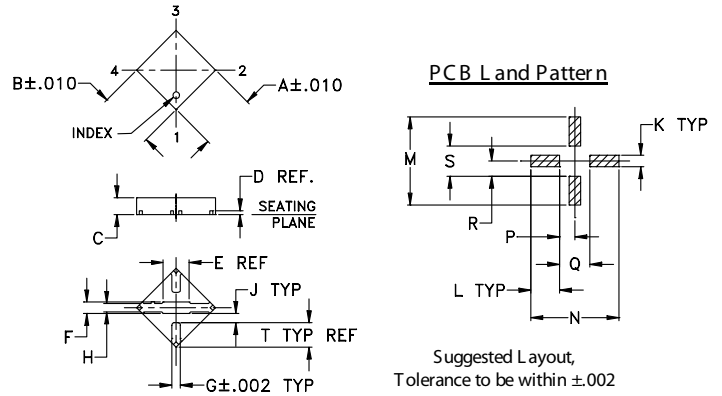
Permanent damage may occur if any of these limits are exceeded.



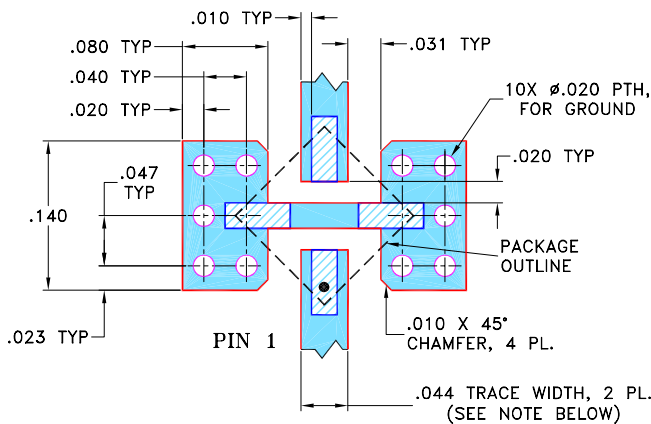
PAD CONNECTIONS

INPUT	1
OUTPUT	3
GROUND	2,4

OUTLINE DRAWING



DEMO BOARD MCL P/N: TB-154 SUGGESTED PCB LAYOUT (PL-126)





OUTLINE DIMENSIONS (Inch mm)

A	B	C	D	E	F	G	H	J	
0.118	0.118	0.035	0.008	0.07	0.024	0.017	0.018	0.021	
3.00	3.00	0.89	0.20	1.78	0.61	0.43	0.46	0.53	
K	L	M	N	P	Q	R	S	T	wt
0.024	0.061	0.186	0.186	0.032	0.064	0.032	0.064	0.05	grams
0.61	1.55	4.72	4.72	0.81	1.63	0.81	1.63	1.27	0.02

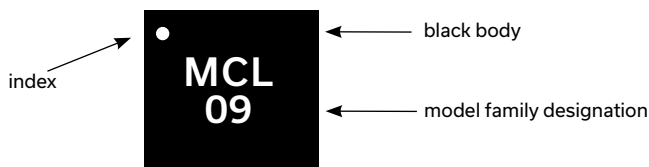
TAPE & REEL INFORMATION: F68

NOTES:

- TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- 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

PRODUCT MARKING

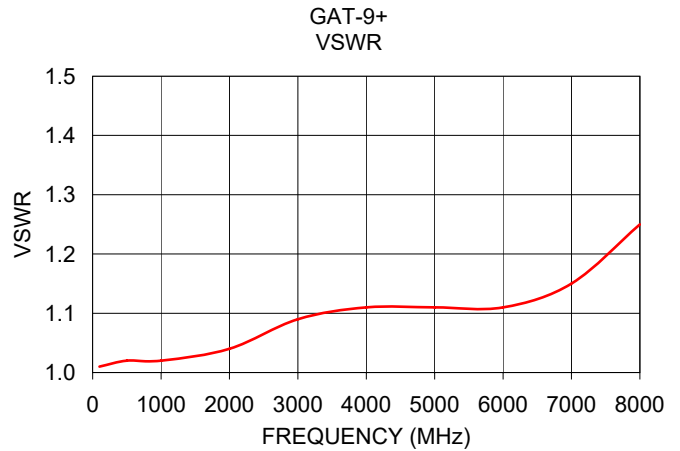
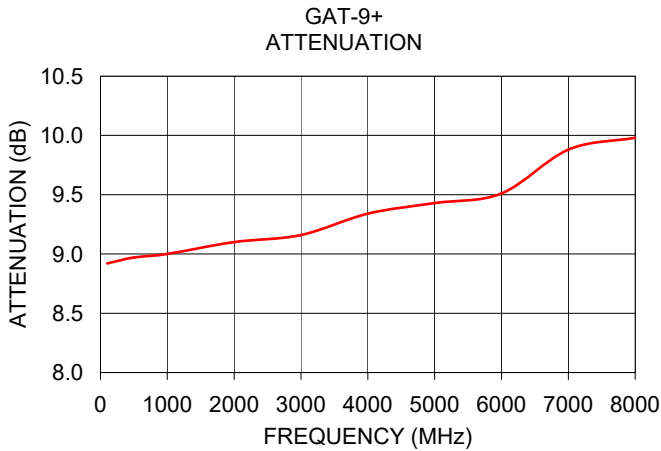


Marking may contain other features or characters for internal lot control



TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	8.92	1.01
500.00	8.97	1.02
1000.00	9.00	1.02
2000.00	9.10	1.04
3000.00	9.16	1.09
4000.00	9.34	1.11
5000.00	9.43	1.11
6000.00	9.51	1.11
7000.00	9.88	1.15
8000.00	9.98	1.25



NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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