

# Miniature Plastic Fixed Attenuator

50Ω 0.5W 0dB DC to 8000 MHz

## GAT-0+



Generic photo used for illustration purposes only

CASE STYLE: FG873

### Maximum Ratings

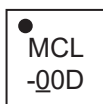
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C

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

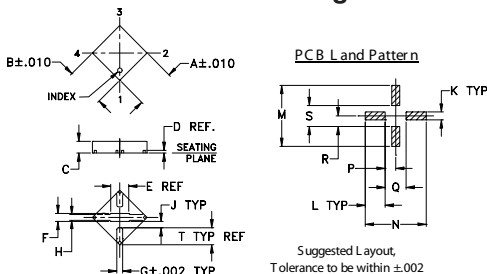
### Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4

### Product Marking



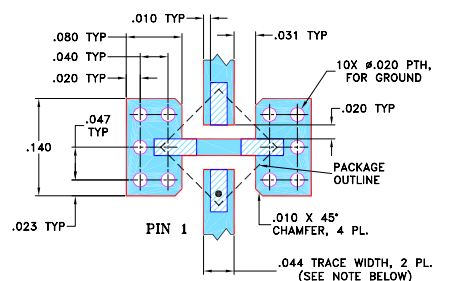
### Outline Drawing



### 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

### Demo Board MCL P/N: TB-154 Suggested PCB Layout (PL-126)



### Features

- miniature package MCLP™ 3x3 mm
- specified to 8000 MHz, useable to 10000 MHz
- excellent VSWR, 1:15:1 typ.

### Applications

- cellular
- PCS
- communications
- radar
- defense

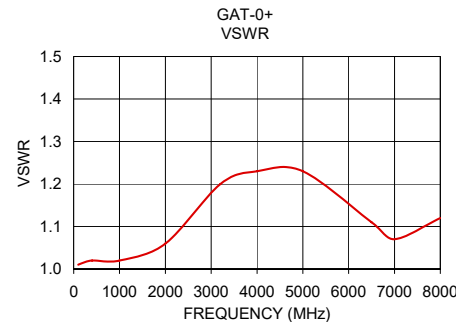
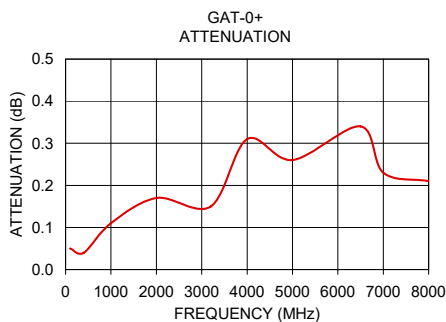
### Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB)					VSWR (:1)			MAX. INPUT POWER <sup>1</sup> (W)
	Flatness								
	DC-1 GHz Typ.	1-5 GHz Typ.	5-8 GHz Typ.	DC-1 GHz Typ.	1-5 GHz Typ.	5-8 GHz Typ.			
f <sub>L</sub> -f <sub>U</sub>	Nom.								
DC-8000	0+0.2	0.1	0.2	0.2	1.05	1.2	1.15	1.35	1.25

1. RF power at 25°C case temperature: ½Watt. Derate linearly to 0.2 Watt at 85°C.
2. Flatness= variation over band divided by 2

### Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	0.05	1.01
400.00	0.04	1.02
1000.00	0.11	1.02
2000.00	0.17	1.06
3200.00	0.15	1.20
4000.00	0.31	1.23
5000.00	0.26	1.23
6500.00	0.34	1.11
7000.00	0.23	1.07
8000.00	0.21	1.12



#### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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