

Miniature Plastic Fixed Attenuator

50Ω 0.5W 1dB DC to 8000 MHz

GAT-1+



Generic photo used for illustration purposes only

CASE STYLE: FG873

Maximum Ratings

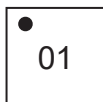
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C

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

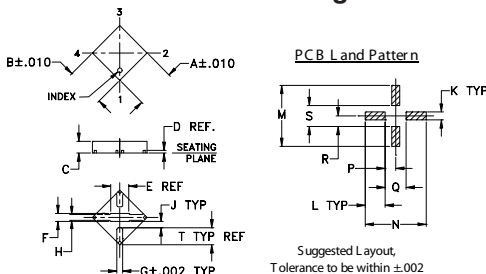
Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4

Product Marking



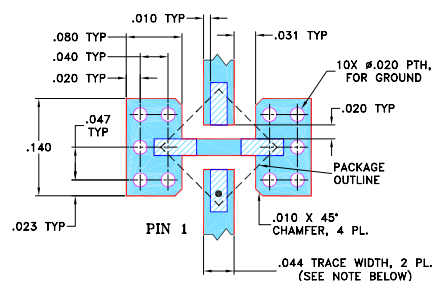
Outline Drawing



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

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000
13"	2000, 3000, 4000

Electrical Specifications at 25°C

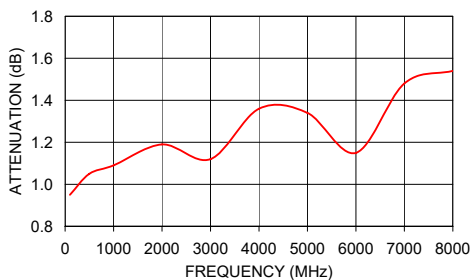
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness			VSWR (:1)			MAX. INPUT POWER ¹ (W)
	DC-1 GHz Typ.	1-5 GHz Typ.	5-8 GHz Typ.	DC-1 GHz Typ.	1-5 GHz Typ.	5-8 GHz Typ.	
f _L -f _U	Nom.						
DC-8000	1±0.2	0.1	0.2	0.2	1.05	1.2	1.15
					1.3	1.3	0.5

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

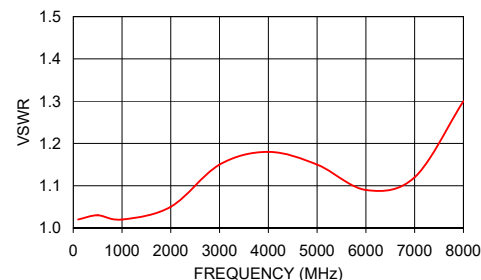
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	0.95	1.02
500.00	1.05	1.03
1000.00	1.09	1.02
2000.00	1.19	1.05
3000.00	1.12	1.15
4000.00	1.36	1.18
5000.00	1.34	1.15
6000.00	1.15	1.09
7000.00	1.48	1.12
8000.00	1.54	1.30

GAT-1+ ATTENUATION



GAT-1+ VSWR



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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