

Miniature Plastic

Fixed Attenuators

GAT+ SERIES

50Ω 0 to 30dB DC to 8 GHz*

Features

- miniature package MCLP™ 3X3 mm
- specified to 8 GHz, useable to 10 GHz
- excellent VSWR, 1.15:1 typ. to 8 GHz

Applications

- cellular
- PCS
- communication
- radar
- defense



CASE STYLE: FG873

PRICE: \$2.35 QTY. (10-49)

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. There has been no change to the model's material, form, fit, or function. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications at 25°C

MODEL NO.	FREQ. RANGE (GHz)	ATTENUATION (dB)					VSWR (:1)					MAX. INPUT POWER (W)	
		Nom.	Flatness			Typ.	Typ.			Typ.	Max.		
			DC - 1 GHz	DC - 5*GHz	5 - 8 GHz		DC - 1 GHz	DC - 5*GHz	5 - 8 GHz				
			Typ.	Typ.	Typ.		Typ.	Typ.	Typ.				
	f_L - f_U												
GAT-0+	DC-8	0±0.2	0.1	0.2	0.2	1.05	1.2	1.15	1.35	1.25		0.5	
GAT-1+	DC-8	1±0.2	0.1	0.2	0.2	1.05	1.2	1.15	1.3	1.3		0.5	
GAT-2+	DC-8	2±0.2	0.1	0.2	0.2	1.05	1.2	1.15	1.3	1.3		0.5	
GAT-3+	DC-8	3±0.3	0.1	0.2	0.2	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-4+	DC-8	4±0.3	0.1	0.2	0.2	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-5+	DC-8	5±0.3	0.1	0.2	0.2	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-6+	DC-8	6±0.3	0.1	0.2	0.3	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-7+	DC-8	7±0.3	0.1	0.2	0.3	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-8+	DC-8	8±0.4	0.1	0.2	0.3	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-9+	DC-8	9±0.4	0.1	0.2	0.3	1.05	1.2	1.15	1.3	1.3		0.5	
GAT-10+	DC-8	10±0.4	0.15	0.2	0.3	1.05	1.2	1.15	1.3	1.3		0.5	
GAT-12+	DC-8	12±0.4	0.15	0.2	0.3	1.05	1.2	1.15	1.3	1.3		0.5	
GAT-15+	DC-8	15±0.4	0.15	0.3	0.3	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-20+	DC-8	20±0.4	0.15	0.2	0.2	1.05	1.2	1.15	1.3	1.35		0.5	
GAT-30+	DC-3	30±0.9	0.5	1.2	—	1.05	1.2	1.15	1.3	—		0.5	

* Up to 3 GHz for GAT-30+

Flatness=variation overband divided by 2

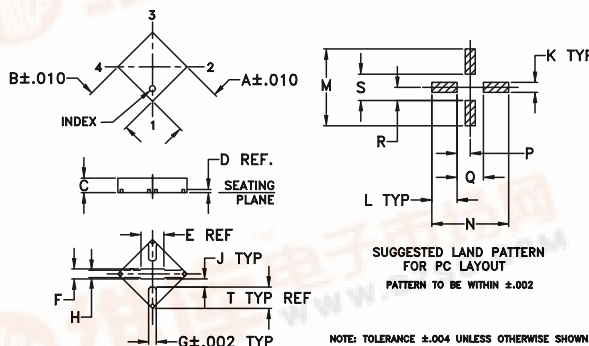
Pin Connections

PORT	hl
INPUT	1
OUTPUT	3
GROUND	2,4

Maximum Ratings

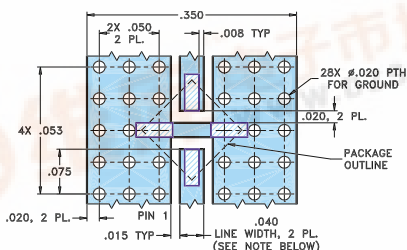
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C

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	0.018
3.00	3.00	0.89	0.20	1.78	0.61	0.43	0.46	0.46
K	L	M	N	P	Q	R	S	T
0.024	0.061	0.186	0.186	0.032	0.064	0.032	0.064	0.05
0.61	1.55	4.72	4.72	0.81	1.63	0.81	1.63	1.27
wt								
grams								
20.0								

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

denotes PCB COPPER LAYOUT
denotes COPPER LAND PATTERN FREE OF SOLDERMASK

designers kit available

Kit No.	No. of Units in Kit	Description	Price \$ per Kit
K1-GAT	45	5 of ea. GAT-2+, 3+, 4+, 6+, 8+, 10+, 15+, 20+, 30+99.95	
K2-GAT	25	5 of ea. GAT-3+, 6+, 10+, 15+, 20+	59.95

INTERNET <http://www.minicircuits.com>

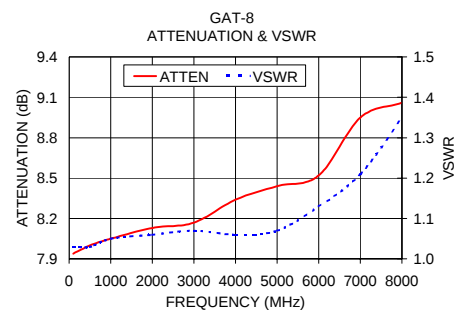
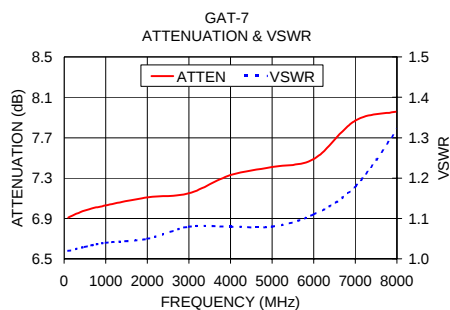
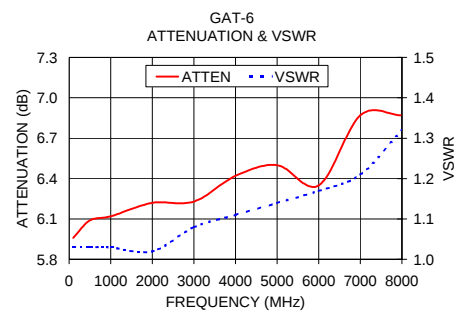
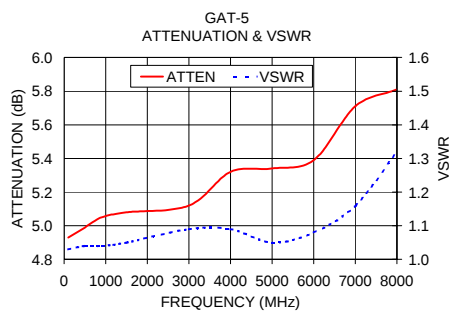
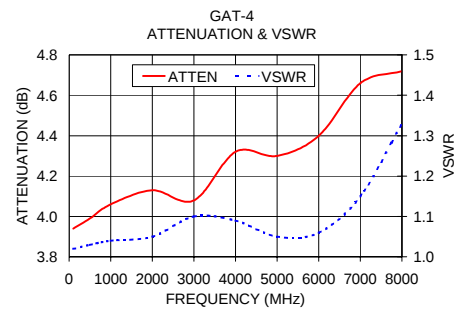
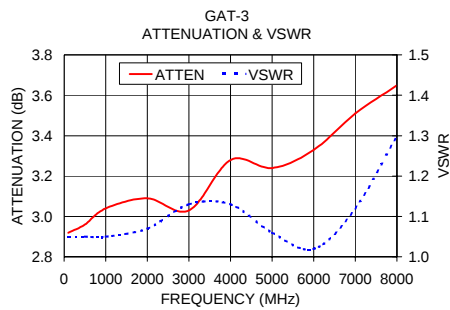
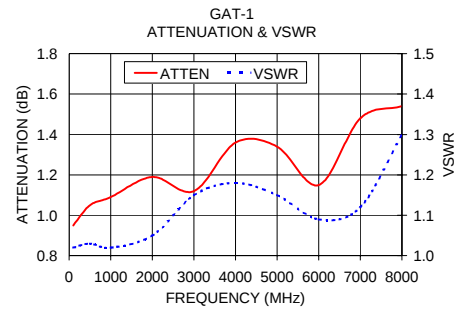
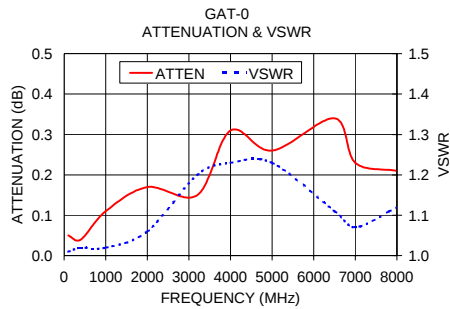
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Typical Performance Curves

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