

Miniature Ceramic Fixed Attenuator

50Ω 1W 10dB DC to 7000 MHz

PAT-10+
PAT-10



Maximum Ratings

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

Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4

Features

- wideband, DC to 7000 MHz
- excellent VSWR, through entire band
- miniature size
- aqueous washable

Applications

- power leveling
- impedance match improvement

CASE STYLE: AF320

PRICE: \$2.95 ea. QTY (10-49)

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

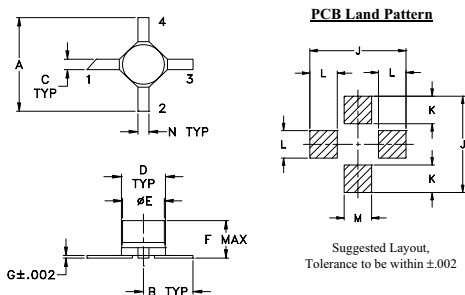
The +Suffix identifies RoHS Compliance. See our web site
for RoHS Compliance methodologies and qualifications.

Electrical Specifications at 25°C

FREQ. RANGE (MHz)	ATTENUATION (dB)			VSWR (:1) Max.			MAX. INPUT POWER (W)
	Flatness, Max.	DC-1 GHz	DC-2.5 GHz	DC-f _u GHz	DC-1 GHz	DC-2.5 GHz	
f _L -f _u	Norm.						
DC-7000	10±0.4	0.4	0.6	1.7	1.3	1.4	1.5

1. RF power at 25°C case temperature: 1 Watt. Derate linearly to 0.1 Watt at 100°C.

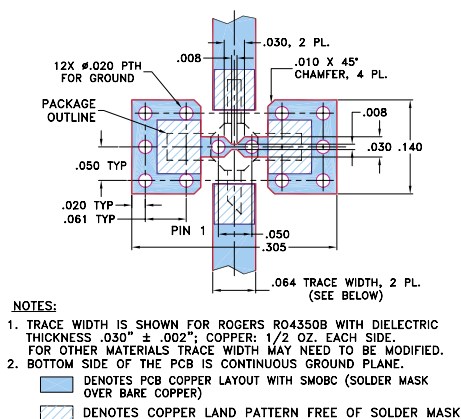
Outline Drawing



Outline Dimensions (inch/mm)

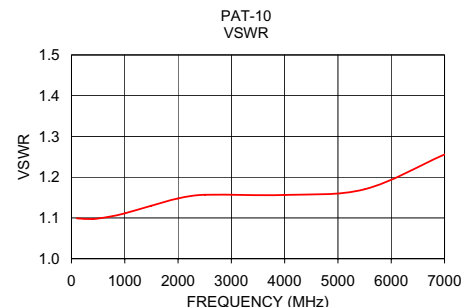
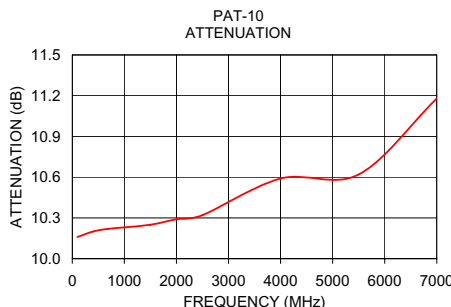
A	B	C	D	E	F	G
.200	.100	.020	.070	.068	.057	.005
5.08	2.54	0.51	1.78	1.73	1.45	0.13
H	J	K	L	M	N	wt
--	.230	.065	.060	.080	.040	grams
--	5.84	1.65	1.52	2.03	1.02	0.04

Demo Board MCL P/N: TB-319 Suggested PCB Layout (PL-208)



Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	10.16	1.10
399.70	10.20	1.10
699.40	10.22	1.10
1000.00	10.23	1.11
1500.40	10.25	1.13
2000.80	10.29	1.15
2500.00	10.32	1.16
4000.30	10.59	1.16
5500.60	10.62	1.17
7000.00	11.18	1.26



designers kit available

Kit No.	No. of Units in Kit	Description	Price \$ per Kit
K1-PAT	20	4 of ea. PAT-3(+),6(+),10(+),15(+)	49.95

Mini-Circuits®

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

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



REV. F
M105530
PAT-10
060815