Miniature Ceramic

Fixed Attenuator

50Ω 1W 30dB DC to 7000 MHz

PAT-30+

CASE STYLE: AF320
PRICE: $2.95 ea. QTY (10-49)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

Operating Temperature	-55°C to 100°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

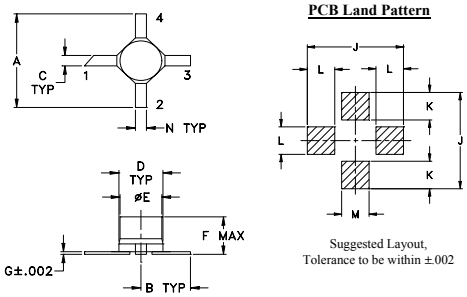
Features

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

Applications

- power leveling
- impedance match improvement

Outline Drawing

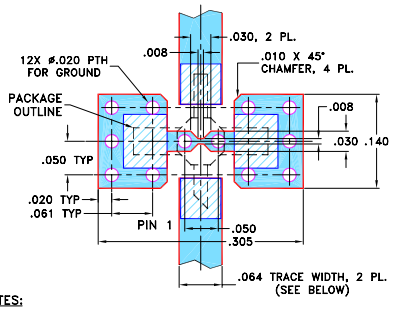


Outline Dimensions (inch / mm)

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)



NOTES:
1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. 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

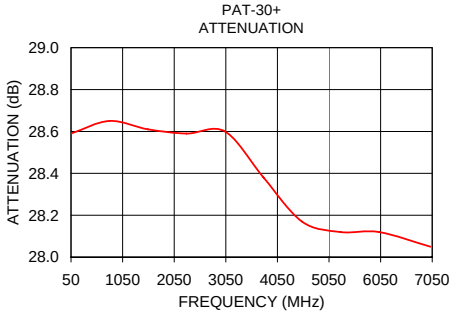
Electrical Specifications at 25°C

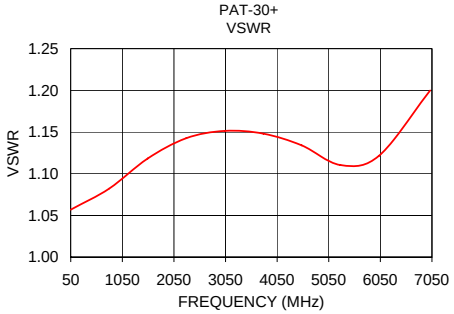
FREQ. RANGE (MHz)	ATTENUATION (dB) Flatness, Max.				VSWR (:1) Max.			MAX. INPUT POWER (W)
f_L-f_U	Nom.	DC-1 GHz	DC-2.5 GHz	DC-f_U GHz	DC-1 GHz	DC-2.5 GHz	DC-f_U GHz	
DC-7000	30±1.7	0.4	0.9	2.8	1.4	1.4	1.5	1

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

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
50.00	28.59	1.06
796.25	28.65	1.08
1542.50	28.61	1.12
2288.75	28.59	1.14
3035.00	28.60	1.15
3781.25	28.38	1.15
4527.50	28.17	1.13
5273.75	28.12	1.11
6020.00	28.12	1.12
7015.00	28.05	1.20





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