

Fixed Attenuators

50Ω DC to 7 GHz
PAT+ SERIES
PAT SERIES

Features

- wideband, DC to 7 GHz
- excellent VSWR, through entire band
- miniature size
- aqueous washable

Applications

- power leveling
- impedance match improvement



CASE STYLE: AF320

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

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

See our web site for RoHS Compliance methodologies
and qualifications.

Electrical Specifications

MODEL NO.	FREQ. RANGE (GHz)	ATTENUATION (dB)				VSWR (:1) Max.			MAX. INPUT POWER (W)
		Nom.	DC-1 GHz	DC-2.5 GHz	DC-f _u GHz	DC-1 GHz	DC-2.5 GHz	DC-f _u GHz	
NEW! PAT-0(+)	DC-5	0±0.2	0.2	0.4	0.5	1.2	1.3	1.45	1
PAT-1(+)	DC-7	1±0.2	0.3	0.4	0.7	1.2	1.3	1.5	1
PAT-2(+)	DC-7	2±0.2	0.3	0.5	0.9	1.2	1.3	1.5	1
PAT-3(+)	DC-7	3±0.3	0.3	0.5	0.9	1.2	1.3	1.4	1
PAT-4(+)	DC-7	4±0.3	0.3	0.5	0.9	1.2	1.3	1.4	1
PAT-5(+)	DC-7	5±0.3	0.3	0.5	1.0	1.2	1.3	1.4	1
PAT-6(+)	DC-7	6±0.3	0.3	0.5	1.1	1.2	1.3	1.4	1
PAT-7(+)	DC-7	7±0.3	0.4	0.6	1.3	1.3	1.4	1.5	1
PAT-8(+)	DC-7	8±0.4	0.4	0.6	1.5	1.3	1.4	1.5	1
PAT-9(+)	DC-7	9±0.4	0.4	0.6	1.7	1.3	1.4	1.5	1
PAT-10(+)	DC-7	10±0.4	0.4	0.6	1.7	1.3	1.4	1.5	1
PAT-12(+)	DC-7	12±0.6	0.5	0.6	1.8	1.3	1.4	1.5	1
PAT-15(+)	DC-7	15±0.6	0.5	0.7	2.4	1.3	1.4	1.5	1
PAT-20(+)	DC-7	20±1.3	0.5	0.7	2.6	1.4	1.4	1.5	1
PAT-30(+)	DC-7	30±1.7	0.4	0.9	2.8	1.4	1.4	1.5	1

1. RF power at 25°C case temperature: 1Watt
Derate linearly to 0 Watt at 100°C

Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4

Maximum Ratings

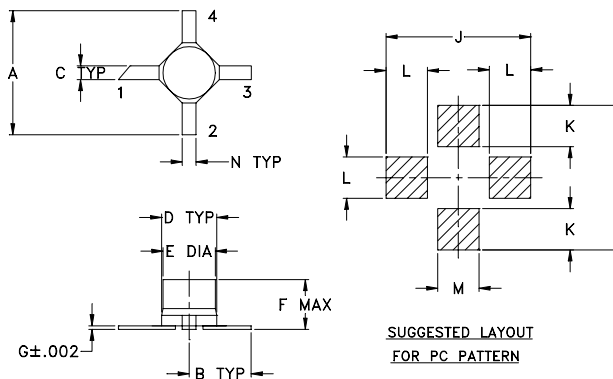
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

marking code:

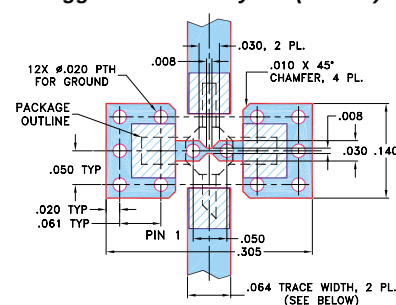
2 digits for nominal attenuation value.

examples: 03 for PAT-3(+); 20 for PAT-20(+)

Outline Drawing



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



NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 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

■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Dimensions (inch/mm)

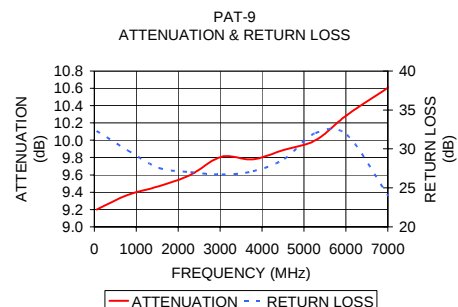
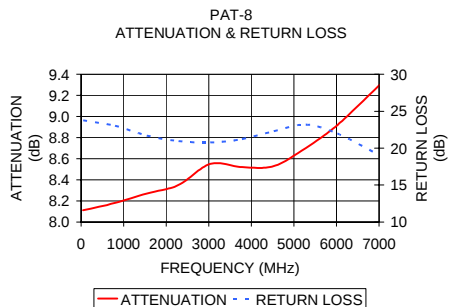
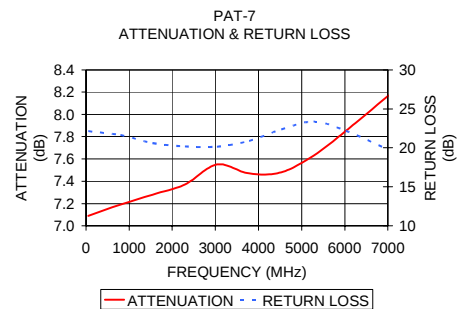
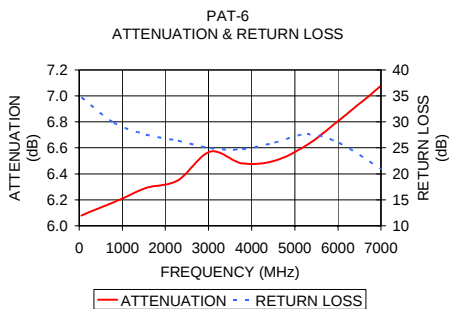
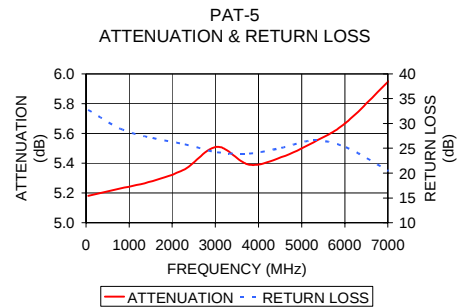
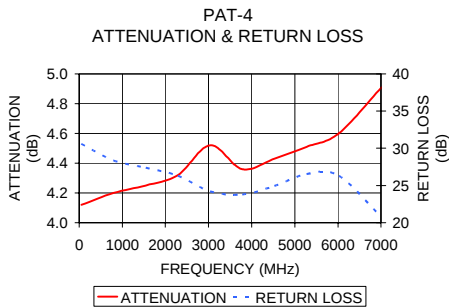
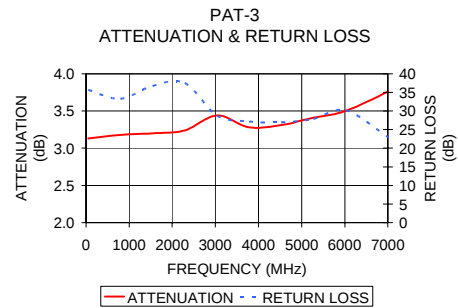
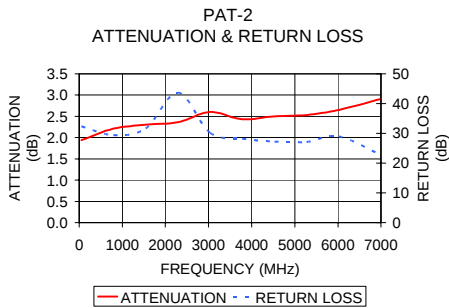
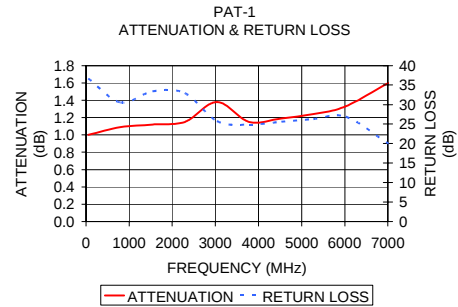
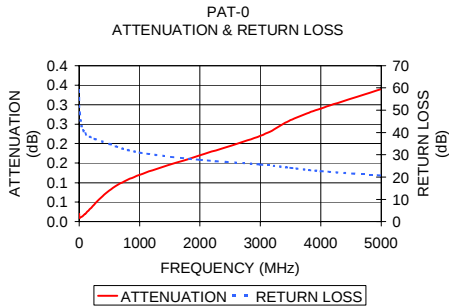
A	B	C	D	E	F	G	H	J	K	L	M	N	wt.
.200	.100	.020	.070	.068	.057	.005	—	.230	.065	.060	.080	.040	grams
5.08	2.54	0.51	1.78	1.73	1.45	0.13	—	5.84	1.65	1.52	2.03	1.02	.04

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

Typical Performance Curves

PAT+ SERIES PAT SERIES



Typical Performance Curves

