

+12 to +32 dBm

Limiter

RLM-63-2W+

50Ω Broadband 30 to 6000 MHz

Maximum Ratings

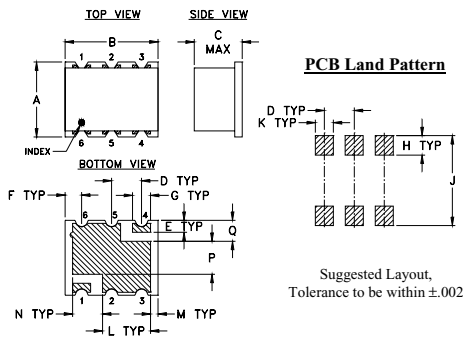
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	2W

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

Pin Connections

INPUT	1
OUTPUT	4
GROUND	2,3,5,6

Outline Drawing

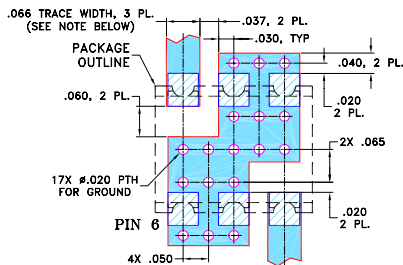


Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
.25	.31	.16	.100	.040	.055	.060	.065
6.35	7.87	4.06	2.54	1.02	1.40	1.52	1.65
J	K	L	M	N	P	Q	wt.
.300	.060	.160	.025	.100	.110	.070	grams
7.62	1.52	4.06	0.64	2.54	2.79	1.78	0.16

Demo Board MCL P/N: TB-393 Suggested PCB Layout (PL-258)



- 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

Features

- wideband, 30 to 6000 MHz
- low insertion loss 0.3 dB typ.
- fast recovery time, 10nsec typ.
- excellent VSWR 1.2:1 typ.
- low output power, 11.5 dBm typ.

Applications

- military, hi-rel applications
- stabilizing generator outputs
- reducing amplitude variations
- protects low noise amplifiers and other devices from ESD or input power damage



CASE STYLE: TT1224
 PRICE: \$18.95 ea. QTY (10-49)

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

Electrical Specifications

Parameter	Condition	Min.	Typ.	Max.	Units
Frequency Range		30	—	6000	MHz
Linear Range					
Max Input Power	less than 0.1 dB compression	—	—	3	dBm
Insertion Loss	less than +3 dBm input power	—	0.3	1.3	dB
VSWR	less than +3 dBm input power	—	1.2	1.6	:1
Limiting Range					
Input Power	>1dB compression filtered signal frequency	+12	—	+32	dBm
Output Power		—	+11.5	—	dBm
Δ Output/ Δ 1dB Input	Input Power Range (dBm)				
	12 to 20	—	0.4	—	
	20 to 25	—	0.2	—	
	25 to 32	—	0.8	—	dB/dB
Recovery Time	1 watt pulse 50 μsec pw 1kHz duty cycle recovery to within 90% of final value.	—	10	—	nsec
Response Time	-30 to +30 dBm input 50 μsec PW 1 kHz duty cycle	—	2	—	nsec

Typical Performance Data

Freq. (MHz)	I. Loss (dB) in Linear Range at +3 dBm	VSWR (-1) in Linear Range at +3 dBm	Power Output (dBm)				Δ Output / Δ 1dB Input		
			+12 dBm Input	+20 dBm Input	+25 dBm Input	+32dBm Input	+12 to +20 dBm Input	+20 to +25 dBm Input	+25 to +32 dBm Input
30.00	0.05	1.23	9.74	11.16	11.66	12.28	0.18	0.10	0.09
100.00	0.02	1.06	9.81	10.95	11.23	11.85	0.14	0.06	0.09
500.00	0.04	1.02	9.12	10.31	10.59	12.21	0.15	0.06	0.23
800.00	0.13	1.02	8.80	10.18	11.13	8.41	0.17	0.19	-0.39
1040.00	0.09	1.01	8.85	10.36	10.79	10.61	0.19	0.09	-0.03
1520.00	0.15	1.01	8.84	10.33	10.04	10.48	0.19	-0.06	0.06
2000.00	0.15	1.04	8.69	10.88	9.65	9.72	0.27	-0.25	0.01
2500.00	0.21	1.14	9.29	8.53	7.70	11.71	-0.10	-0.17	0.57
3000.00	0.24	1.20	9.62	6.28	7.18	12.47	-0.42	0.18	0.76
3500.00	0.26	1.14	9.63	4.90	6.72	12.89	-0.59	0.36	0.88
4000.00	0.30	1.01	9.98	3.71	6.21	13.45	-0.78	0.50	1.03
4500.00	0.36	1.14	10.12	3.78	5.29	13.47	-0.79	0.30	1.17
5000.00	0.43	1.24	10.12	3.73	6.38	11.01	-0.80	0.53	0.66
5500.00	0.63	1.29	9.83	4.03	7.54	11.16	-0.73	0.70	0.52
6000.00	0.69	1.37	9.27	3.53	7.38	12.63	-0.72	0.77	0.75



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

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