

Plug-In Limiter

50Ω Broadband, 0.1 to 150 MHz

PLS-1+
PLS-1



CASE STYLE: A01

Maximum Ratings

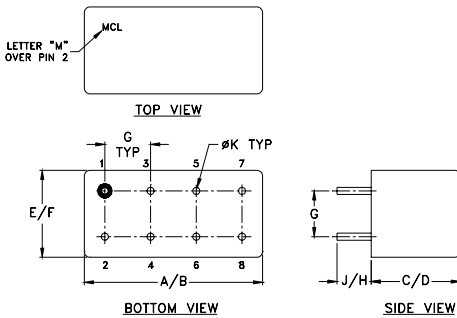
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	100mW
Control Current	10mA

Pin Connections

INPUT	1
OUTPUT	8
CONTROL	3,4^
GROUND	2,5,6,7
CASE GROUND	2

^ pins must be connected together externally

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

Features

- hermetic shielded case
- very small phase variation

Applications

- military, hi-rel applications
- stabilizing generator outputs
- reducing amplitude variations
- providing constant amplitude signals in phase sensitive systems

+ 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.

Limiter Electrical Specifications

FREQUENCY (MHz)	INPUT POWER (dBm)		OUTPUT* POWER (dBm)	CONTROL CURRENT (mA)	LIMITING Δ Output		
	Min.	Max.			Input range dBm	amp	phase, deg/dB
0.1-150	6	20	-4.0	3	6 to 10	0.10	0.8
					10 to 16	0.15	0.8
					16 to 20	0.15	0.7

* Typical output level at typical control current, level maybe changed by varying current.

Typical Performance Data

Frequency (MHz)	Power Output		Delta (dB)	Amplitude Delta, out dBm Input			Phase Delta, Out dBm Input		
	(20 dBm IN) (dBm)	(6 dBm IN) (dBm)		20-16 (dB)	16-10 (dB)	10-6 (dB)	20-16 (dB)	16-10 (dB)	10-6 (dB)
0.10	-5.87	-5.68	0.19	0.16	0.35	0.17	0.28	3.41	2.84
0.26	-5.21	-4.86	0.36	0.13	0.18	0.12	0.69	1.29	1.52
0.66	-4.83	-4.52	0.31	0.10	0.17	0.09	0.30	0.70	0.75
1.06	-4.72	-4.39	0.33	0.10	0.16	0.10	0.21	0.49	0.48
1.71	-4.63	-4.32	0.31	0.08	0.16	0.09	0.25	0.36	0.35
4.42	-4.50	-4.21	0.29	0.07	0.13	0.09	0.30	0.70	0.42
7.11	-4.46	-4.18	0.28	0.07	0.12	0.09	0.34	0.90	0.74
11.41	-4.42	-4.17	0.25	0.06	0.12	0.07	0.49	0.99	1.06
20.08	-4.37	-4.13	0.24	0.06	0.11	0.07	0.61	1.10	1.06
40.32	-4.33	-4.12	0.21	0.06	0.09	0.07	0.20	1.04	0.44
46.73	-4.34	-4.15	0.19	0.05	0.09	0.05	0.32	0.37	0.38
75.09	-4.37	-4.10	0.28	0.12	0.10	0.06	0.97	0.24	0.39
85.23	-4.40	-4.06	0.34	0.14	0.13	0.07	1.24	0.37	1.25
95.37	-4.30	-4.07	0.23	0.12	0.06	0.05	0.71	0.42	1.46
104.06	-4.31	-4.02	0.29	0.11	0.13	0.05	1.09	0.42	2.45
114.50	-4.20	-3.99	0.22	0.10	0.08	0.03	0.54	1.06	1.55
120.76	-4.21	-3.95	0.26	0.13	0.09	0.04	1.25	0.58	1.49
129.95	-4.33	-3.94	0.39	0.07	0.23	0.09	1.52	1.29	1.37
139.98	-4.28	-3.97	0.32	0.08	0.19	0.03	0.90	0.22	0.68
150.00	-4.32	-3.91	0.41	0.24	0.16	0.01	0.27	0.66	0.92

