

Plug-In Limiter

50Ω Broadband, 0.1 to 150 MHz

PLS-1+



Generic photo used for illustration purposes only

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

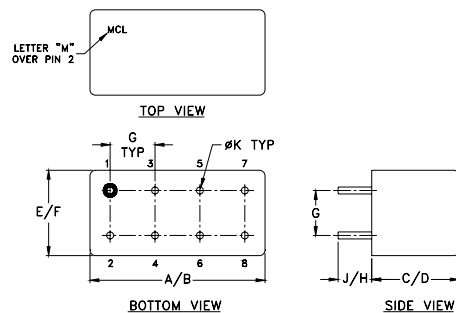
Permanent damage may occur if any of these limits are exceeded.

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	
.770	.800	.385	.400	.370	.40
19.56	20.32	9.78	10.16	9.40	10.1
G	H	J	K		v
.200	.20	.14	.031		gram
5.08	5.08	3.56	0.79		5.

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

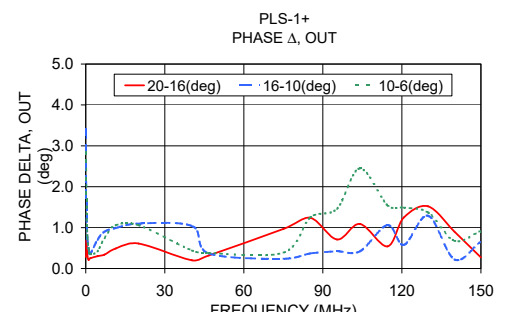
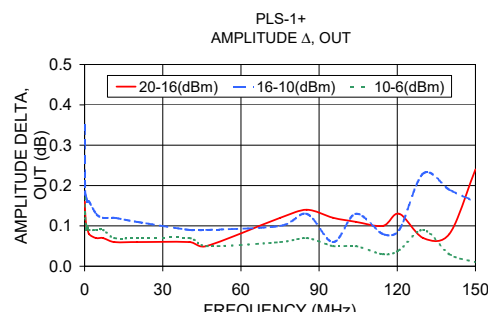
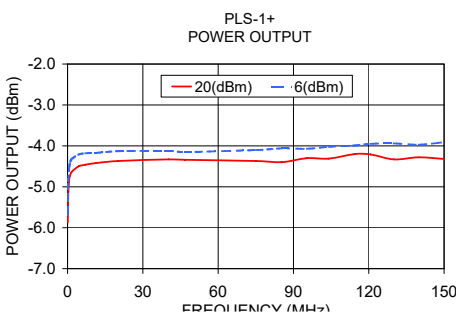
Electrical Specifications

Parameter	Condition	Min.	Typ.	Max.	Units
Frequency Range	—	0.1	—	150	MHz
Input Power	—	6.0	—	20	dBm
Output Power*	—	—	-4.0	—	dBm
Control Current	—	—	3.0	—	mA
Limiting Δ Output/1dB Δ Input	Amplitude	Input Power Range (dBm)			
		6 to 10	—	0.10	—
		10 to 16	—	0.15	—
		16 to 20	—	0.15	—
	Phase	6 to 10	—	0.8	—
		10 to 16	—	0.8	—
		16 to 20	—	0.7	—

* Typical output level at typical control current, level may be 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 (deg.)	16-10 (deg.)	10-6 (deg.)
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



Notes

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