

Plug-In Limiter

PLS-2

Broadband, 100 to 900 MHz

Maximum Ratings

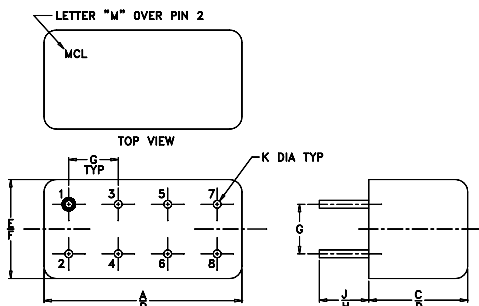
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	100mW
Control Current	10mA

Pin Connections

PORT	dn
INPUT	1
OUTPUT	8
CONTROL	3,4^
GNDEXT	2,5,6,7
CASEGND	2,5,6,7

^ pins must be connected together externally

Outline Drawing



Outline Dimensions (inch/mm)

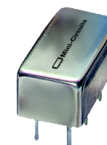
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

Features

- wideband, 100 to 900 MHz
- very small, phase variation
- hermetic, shielded case

Applications

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



CASE STYLE: A01
PRICE: \$22.95 ea. QTY (1-9)

Limiter Electrical Specifications

MODEL NO.	FREQUENCY (MHz)	INPUT POWER (dBm)		OUTPUT* POWER (dBm)	CONTROL CURRENT (mA)	LIMITING input range, Δ Output/ Δ1 dB		
		Min.	Max.	Typ.		dBm	amp	phase, deg/dB
PLS-2	100-900	3	15	-5.0	5	3to8	0.20	2.0
						8to12	0.40	2.0
						12to15	0.40	2.0

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)		15-12 (dB)	12-8 (dB)	8-3 (dB)	15-12 (deg.)	12-8 (deg.)	8-3 (deg.)
100.00	-3.51	-3.86	0.35	0.02	0.02	0.35	1.10	0.94	0.70
140.00	-3.46	-3.83	0.37	0.01	0.02	0.37	0.83	1.36	0.76
180.00	-3.40	-3.79	0.38	0.00	0.03	0.37	0.76	1.59	1.01
220.00	-3.34	-3.72	0.38	0.01	0.04	0.36	0.61	1.32	1.81
260.00	-3.29	-3.65	0.36	0.01	0.04	0.35	0.39	1.36	2.90
320.00	-3.23	-3.62	0.39	0.01	0.05	0.37	0.21	0.54	4.48
360.00	-3.20	-3.66	0.46	0.00	0.05	0.42	0.67	2.30	5.85
400.00	-3.20	-3.73	0.53	0.00	0.08	0.47	1.70	2.61	5.03
440.00	-3.26	-3.82	0.56	0.00	0.09	0.49	1.05	0.08	3.60
480.00	-3.49	-3.93	0.44	0.06	0.04	0.47	1.44	0.99	4.78
520.00	-3.74	-4.04	0.30	0.12	0.03	0.46	0.75	0.66	4.68
560.00	-3.97	-4.18	0.21	0.15	0.07	0.45	0.28	1.32	3.94
600.00	-4.07	-4.31	0.25	0.14	0.07	0.47	0.80	2.38	3.30
640.00	-4.15	-4.48	0.33	0.13	0.04	0.52	1.75	1.89	2.59
680.00	-4.24	-4.67	0.43	0.16	0.02	0.60	0.59	0.20	0.60
740.00	-4.54	-5.00	0.46	0.27	0.06	0.69	1.21	4.40	5.11
780.00	-4.89	-5.22	0.33	0.35	0.01	0.70	0.06	2.16	8.70
820.00	-5.40	-5.44	0.04	0.47	0.15	0.68	1.59	1.94	7.33
860.00	-5.71	-5.62	0.09	0.60	0.16	0.70	4.24	4.91	7.02
900.00	-5.92	-5.75	0.17	0.71	0.15	0.71	5.90	6.07	6.23

