



PIN DIODE LIMITERS

PASSIVE PIN DIODE TYPE, LP SERIES

0.5 - 18 GHz

FEATURES

- Low Insertion Loss
- 1 Watt CW and 100 Watt Peak (1 μ sec) Power Handling Capability
- Fast Response & Short Recovery Time (10 to 20 nsec typical)
- Built-In DC Return
- Hermetically Sealed Module
- Moderate Cost



APPLICATIONS

- Receiver Protection
- Power Leveling

ENVIRONMENTAL RATINGS

Max Input Power..... 1 Watt CW &
100 Watt Peak (μ sec) Power Handling Capability
Operating Temperature Range.....-55°C to +125°C
Storage Temperature Range.....-65°C to +125°C
Shock..... 50G, 11 msec
Vibration..... 20G, 100 to 2000 Hz

Specifications: (@ +25°C)

MODEL	FREQUENCY RANGE (GHz)	MAXIMUM INSERTION LOSS (dB)	MAX VSWR	TYP LIM THRESHOLD (dBm)	MAX LEAKAGE @ 1W CW INPUT (dBm)	PACKAGE STYLE
LP0510	0.5 – 1.0	0.4	1.3:1	+9	+20	B, BF, L
LP0520	0.5 – 2.0	0.5	1.3:1	+9	+20	B, BF, L
LP1020	1.0 – 2.0	0.4	1.3:1	+9	+19	B, BF, L
LP2040	2.0 – 4.0	0.5	1.4:1	+9	+19	B, BF, L
LP2080	2.0 – 8.0	1.2	1.5:1	+9	+19	B, BF, L
LP05018	0.5 – 18.0	1.8	2.0:1	+9	+20	B, BF, L
LP1018	1.0 – 18.0	1.8	2.0:1	+9	+20	B, BF, L
LP2018	2.0 – 18.0	1.8	2.0:1	+9	+20	B, BF, L
LP4080	4.0 – 8.0	1.2	1.5:1	+9	+19	B, BF, L
LP7012	7.0 – 12.0	1.5	1.6:1	+9	+19	B, BF, L
LP8016	8.0 – 16.0	1.6	1.8:1	+9	+19	B, BF, L
LP8018	8.0 – 18.0	1.8	2.0:1	+9	+19	B, BF, L
LP1118	11.0 – 18.0	1.8	2.0:1	+9	+19	B, BF, L

Note 1: Insertion loss and VSWR tested @ -10dBm

Note 2: Minimum power handling capability -1 Watt CW or 100 Watts peak (1 μ sec, 0.1% duty) derated to 20% @ +125°C.

Note 3: Standard outline in "B" style add suffix "BF" or "L" to the model number for optional outlines.

For Package Outlines see Outline Drawings Page