PIN DIODE LIMITERS

DETECTOR ACTIVATED TYPE, LS SERIES

0.5 - 18 GHz

FEATURES

- Low Limiting Threshold (+6 dBm typical)
- Low Leakage Level (+13 dBm typical)
- 1 Watt CW and 200 Watt Peak (1 μsec) Power Handling Capability
- Built-In DC Block, Both Ends
- Hermetically Sealed Module
- Typical Recovery Time is Less Than 10 μsec

APPLICATIONS

- Receiver Protection
- Power Leveling

ENVIRONMENTAL RATINGS

Max Input Power……..……..1 Watt CW & 200 Watt Peak (μsec) 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
LS0510	0.5 – 1.0	0.5	1.4:1	+6	+14	B, BF, L
LS0520	0.5 – 2.0	0.6	1.4:1	+6	+14	B, BF, L
LS1020	1.0 – 2.0	0.6	1.4:1	+6	+14	B, BF, L
LS2040	2.0 – 4.0	0.7	1.4:1	+6	+14	B, BF, L
LS2080	2.0 – 8.0	1.3	1.6:1	+6	+14	B, BF, L
LS05018	0.5 – 18.0	2.0	2.0:1	+6	+14	B, BF, L
LS1018	1.0 – 18.0	2.0	2.0:1	+6	+14	B, BF, L
LS2018	2.0 – 18.0	2.0	2.0:1	+6	+14	B, BF, L
LS4080	4.0 – 8.0	1.3	1.5:1	+6	+13	B, BF, L
LS7012	7.0 – 12.0	1.6	1.6:1	+6	+13	B, BF, L
LS8016	8.0 – 16.0	1.8	1.8:1	+6	+13	B, BF, L
LS8018	8.0 – 18.0	2.0	2.0:1	+6	+13	B, BF, L
LS1118	11.0 – 18.0	2.0	2.0:1	+6	+13	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 μsec, 0.1% duty) derated to 20%@+125ºC.
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

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