



# PIN DIODE LIMITERS

LOW LEAKAGE LS SERIES 1W CW, 10MHz – 6000 MHz

## FEATURES

- Frequency Range down to Very Low Frequency (10 MHz)
- Available single unit covering 10 MHz to 6 GHz (LS00160)
- Low Leakage Level (+13 dBm Typical)
- Extremely low Insertion Loss and VSWR
- 1 Watt CW and 200 Watt Peak (1 μsec) Power Handling Capability
- Built-In DC Block @ Input and Output
- Hermetically Sealed Module



## APPLICATIONS

- Front End Protection for LNA's
- Power Leveling (Limiting)
- Receiver Protection

## 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 (MHz)	MAXIMUM <sup>1</sup> INSERTION LOSS (dB)	MAX <sup>1</sup> VSWR	TYP LIM THRESHOLD (dBm)	MAX LEAKAGE <sup>4</sup> @ 1W CW INPUT (dBm)	PACKAGE <sup>3</sup> STYLE
LS00101	10 –100	0.15	1.10:1	+6	+16	B, BF, L, LB
LS00102	10 – 200	0.20	1.10:1	+6	+14	B, BF, L, LB
LS00105	10 – 500	0.30	1.15:1			
LS00110	10 – 1000	0.40	1.15:1			
LS00120	10 – 2000	0.50	1.20:1			
LS00130	10 – 3000	0.60	1.20:1			
LS00140	10 – 4000	0.70	1.30:1			
LS00160	10 – 6000	1.30	1.40:1			
LS00202	20 – 200	0.20	1.10:1	+6	+14	B, BF, L, LB
LS00205	20 – 500	0.30	1.15:1			
LS00210	20 – 1000	0.40	1.15:1			
LS00220	20 – 2000	0.50	1.20:1			
LS00230	20 – 3000	0.60	1.20:1			
LS00240	20 – 4000	0.70	1.30:1			
LS00260	20 – 6000	1.30	1.40:1			
LS00502	50 – 200	0.20	1.10:1	+6	+14	B, BF, L, LB
LS00505	50 – 500	0.30	1.15:1			
LS00510	50 – 1000	0.40	1.15:1			
LS00520	50 – 2000	0.50	1.20:1			
LS00530	50 – 3000	0.60	1.20:1			
LS00540	50 – 4000	0.70	1.30:1			
LS00560	50 – 6000	1.20	1.40:1			

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

Note 2: Minimum power handling capability -1 Watt CW or 200 Watts peak (1 μsec, 0.1% duty) derated to 20% @ +125°C.

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

Note 4: Leakage +16 dBm typical @ or below 100 MHz, +15 dBm typical @ or below 200 MHz.

Consult factory for higher power limiters (up to 25 Watt CW or 1 kWatt pulse peak power)

For Package Outlines see Outline Drawings Page