



Extremely Low Frequency LS Series Pin Diode Limiters

1 Watt CW, 100KHz - 3000MHz

FEATURES

- Frequency range down to 100 KHz (usable to 45 KHz).
- Available single unit covering 100 KHz to 3 GHz (LS0000130A)
- Extremely low insertion loss and VSWR
- 1 Watt CW and 200 Watt Peak (1 microsec) power handling capability
- Built-In DC Block @ Input and Output
- Hermetically Sealed Module



APPLICATIONS

- Front End Protection for LNA's
- Receiver Protection
- Lab Use

ENVIRONMENTAL RATINGS

Max Input Power.....1 Watt CW or 200W Peak (μ sec) Power Handling Capability²
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	FREQ. RANGE	MAXIMUM ^{1,3} INSERTION LOSS (dB)	MAX ^{1,3} VSWR	TYP LIM THRESHOLD (dBm)	Max LEAKAGE ⁴ @ 1 W CW INPUT (dBm)	PACKAGE STYLE
LS0000101A	100 KHz – 100MHz	0.15	1.10:1	+6	+16	C
LS0000105A	100 KHz – 500MHz	0.30	1.10:1	+6	+14	C
LS0000110A	100 KHz – 1000MHz	0.40	1.20:1	+6	+14	C
LS0000120A	100 KHz – 2000MHz	0.50	1.30:1	+6	+14	C
LS0000130A	100 KHz – 3000MHz	0.60	1.30:1	+6	+14	C
LS000101A	1.0 – 100MHz	0.15	1.10:1	+6	+16	C
LS000105A	1.0 – 500MHz	0.30	1.10:1	+6	+14	C
LS000110A	1.0 – 1000MHz	0.40	1.10:1	+6	+14	C
LS000120A	1.0 – 2000MHz	0.50	1.15:1	+6	+14	C
LS000130A	1.0 – 3000MHz	0.60	1.20:1	+6	+14	C

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

Note 2: Minimum power handling capability: 1W CW or 200W Peak (1 μ sec, 0.1% duty) derated to 20% @ +125°C.

Note 3: Insertion loss and VSWR high below 800KHz for LS 0000 Series; below 5 MHz for LS 000 Series.

Note 4: Leakage +16 dBm typical for frequencies below 100MHz, +18dBm typical for frequencies below 1 MHz.

For Package Outlines see Outline Drawings Page