



DC - 3 GHz Voltage or Power Limiter – LV3000A

Max input +/- 10 VDC or +30 dBm

FEATURES

- Frequency from true DC (0Hz) to 3 GHz
- No frequency breakup in between DC to 3 GHz
- No bias required
- Typical threshold level (± 0.7 VDC or 0 dBm microwave)
- Low output leakage level (± 1.5 V typical @ ± 10 V input, +13 dBm typical @ +30 dBm input microwave)
- No concern of rise time or recovery time
- Low harmonics generation (-20 dBc typical at rated input power).
- Small size option for coaxial SMA or surface mount drop-in package.
- Hermetically Sealed Package



APPLICATIONS

- For DC, AC Analog, Digital, RF, Impulse, and Microwave Signals
- Front End Protection for LNA's
- Receiver Protection
- Lab Use

ENVIRONMENTAL RATINGS

Max Input Power.....1 Watt CW or ± 10 VDC
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

Model LV3000A Specifications: (@ +25°C)

FREQUENCY RANGE	VSWR -10dBm or 0.1V	INSERTION LOSS @-10 dBm or 0.1V	LIMITING THRESHOLD LEVEL	OUTPUT LEAKAGE (50 Ohm Load)	PACKAGE STYLE
0Hz DC (+V or -V)	Same as external load value	0 to 12% Typical	± 0.7 V Typical	± 0.8 V Typical @ ± 5 V Input ± 1.5 V Typical @ ± 10 V Input	C,L
0Hz < to 3 GHz AC Analog or Digital	Same as external load value	0 to 12% Typical	± 0.7 V Typical	± 0.8 V Typical @ ± 5 V Input ± 1.5 V Typical @ ± 10 V Input	C,L
0Hz < to 3 GHz Microwave	2 : 1 Typ @ 3 GHz	1 dB Typ @ 3 GHz	0 dBm Typical	± 13 dBm Typical @ + 30 dBm Input	C,L

Note 1: Power or Voltage rating de-rated to 20% @ $\pm 125^\circ\text{C}$.

Note 2: Standard outline in "C" style add suffix "L" to the model number for optional L package style

For Package Outlines see Outline Drawings Page