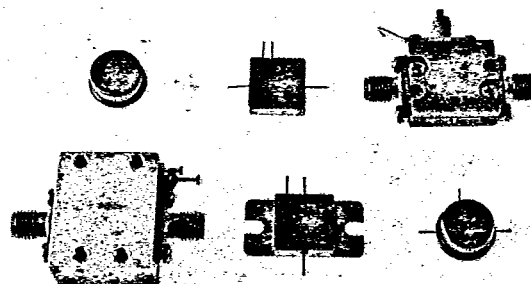


LH-1

B-74-09-51

50 to 100 MHz Cascadable Limiter

- Even Order Harmonic Suppression from Balanced Design
- Low Input VSWR in Limiting
- Voltage Variable + 5.0 to 20.0V
- Limiting Level: - 10 to 0dBm
- **Various Package Options (see photo)**
Surface Mounted (SMTO-8), Flatpack with flange (FPF), Connectorized (CAH), Connectorized Flatpack (CFP), Flatpack (FP), and TO-8 (AH)



Electrical Specifications

Characteristic	Typical	Guaranteed - 55°C to + 85°C	Maximum Ratings
Frequency: 1.0dB Bandwidth		50-1000MHz	Ambient Operating Temperature - 54°C to + 100°C
Frequency Response Variation (dB/MHz)	+ 0.15/100	+ 0.25/100	Storage Temperature ... - 62°C to + 125°C
Input VSWR: Pin < + 20.0dBm + 10.0 < Bias < + 20.0V	1.8:1	2.0:1	Maximum Case Temperature + 100°C
Output VSWR: Pin < - 10.0dBm, + 10.0 < Bias < + 20.0V	1.8:1	2.0:1	Maximum DC Voltage + 25.0V
Max. Recommended Input Signal Level (dBm)		+ 26.0	Maximum Continuous RF Input Power + 100.0mW
Typical Bias Current (mA): at + 15.0Vdc at + 20.0Vdc	+ 7.5 + 9.5		Maximum Short Term RF Input Power + 400.0mW (1 minute Max.)
			Maximum Peak Power + 1.0W (3 μ seconds Max.)
			"X" Series Burn-In Temperature + 125°C
			Weight + 2.5 grams Max.

Limiting Characteristics (25°C)

Bias Voltage	Output Level at Limiting Threshold (1dB Compression)		Max. Output Limiting Level (+ 20dBm Input)		Insertion Loss (500 MHz)		Insertion Loss (1000 MHz)	
	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
+ 20 volts	0dBm	+ 2.0dBm	0dBm	+ 2.0dBm	+ 1.7dB	+ 2.0dB	+ 2.1dB	+ 2.5dB
+ 15 volts	- 2.2dBm	0dBm	- 1.2dBm	+ 1.0dBm	+ 1.8dB	+ 2.4dB	+ 2.6dB	+ 3.0dB
+ 10 volts	- 5.8dBm	- 4.0dBm	- 3.8dBm	- 2.0dBm	+ 2.6dB	+ 3.0dB	+ 3.1dB	+ 3.7dB
+ 5 volts	- 12dBm	—	- 9.5dBm	—	+ 4.4dB	—	+ 5.3dB	—

Outline Drawings

(For additional package configurations, see Section 9)

Reference Outline Drawings for AH-1