



Wideband Logarithmic Amplifier 100-500 MHz

ICLLWP300

- Hermetic Ultraminiature Design
- Linearity ± 1 dB
- Greater than Two Octave Operating Band

Guaranteed Specifications* (From -30°C to $+71^{\circ}\text{C}$ Case Temp)

Frequency Range	100 - 500 MHz
Input Dynamic Range	-70dBm to 0dBm
Log Output	
Linearity	
(@ room temp)	± 1 dB Max
(-30°C to $+71^{\circ}\text{C}$)	± 2 dB Max
Slope (@ room temp)	15 mV/dB Nom
Slope Variation vs. Temperature	
(-30°C to $+71^{\circ}\text{C}$)	5% Max
Voltage Range (Direct Coupled)	0 to 1V Nom
Rise Time (10-90%)	20 nsec Max
Limited IF Output	0 dBm Nom
Bias Power**	
+12 VDC @ 60 mA Typ	
-12 VDC @ 100 mA Typ	

Operating Characteristics

IF Impedance	50 Ohms Nominal
Video Load Impedance	93 Ohms Nominal
Environmental	
See Appendix for MIL-STD-883 screening option.	

*All specifications apply when operated at ± 12 VDC and with a 50 ohm IF source and load impedance and 93 ohm video load impedance.
** ± 15 VDC option available. Consult factory

Ordering Information

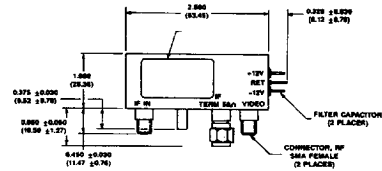
Model No.	Package
ICLLW300SMA	Connectorized
ICLLWP300PIN	P.C. Mount

Specifications Subject to Change Without Notice.

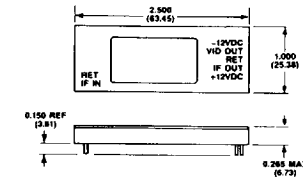
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FP-21



Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Typical Performance

