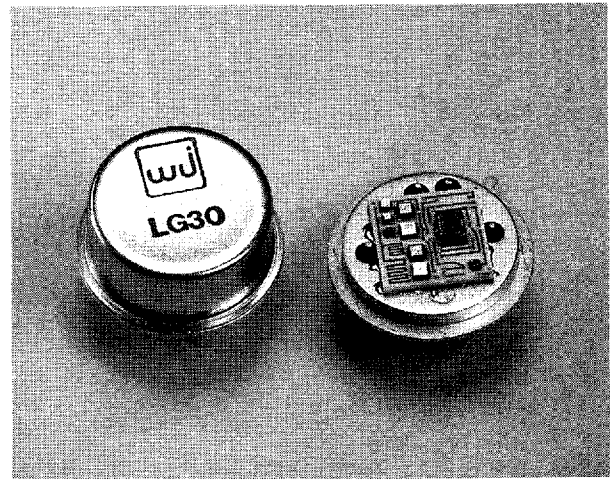


WJ-LG30/SMLG30

TO-8 THIN FILM LINEARIZER FOR THE WJ-G30

- ◆ AVAILABLE IN SURFACE MOUNT
- ◆ WIDE TEMPERATURE OPERATION
- ◆ YIELDS LINEAR ATTENUATION (dB)
FOR LINEAR CONTROL VOLTAGE



Linearity Specifications*

Temperature	Typical	Guaranteed Maximum
25°	± 1.0 dB	± 1.5 dB
-54°C to +85°C	$< \pm 1.5$ dB	± 2.0 dB

*Frequency: 100-2000 MHz; attenuation range: 3 to 25 dB

Typical Current Drain

	Control Voltage= 0 V (Max. Attenuation)	Control Voltage= 15 V (Min. Attenuation)
V-	3 mA	15 mA
V+	5 mA	14 mA
V _{CON}	6 mA	12 mA

Combination of LG30 Plus G30

	3 mA	15 mA
V-	12 mA	21 mA
V+	6 mA	12 mA
V _{CON}		

Absolute Maximum Ratings

Storage Temperature	-62°C to +125°C
Maximum Case Temperature	125°C
Maximum DC Voltage	+17 Volts
"S" Series Burn-in Temperature (Case)	125°C

The WJ-G30 module is a voltage controlled voltage source. The WJ-LG30 is designed to drive the WJ-G30, a voltage controlled attenuator module. The combination of the LG30 and G30 modules has a typical attenuation characteristic which is linear with control voltage provided the following conditions are met:

1. positive supply = $15V \pm 1\%$
2. negative supply = $-15V \pm 1\%$
3. source resistance of variable supply $\leq 1 \Omega$

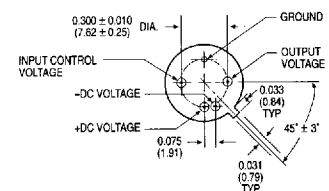
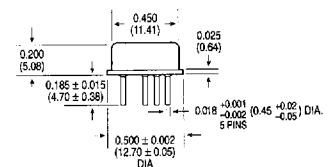
The LG30 has a response time of $2 \mu s$ over its entire band of control voltage.

The response time of the G30 is typically $.2 \mu s$.

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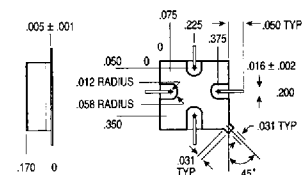
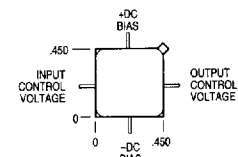
Outline Drawing

LG30



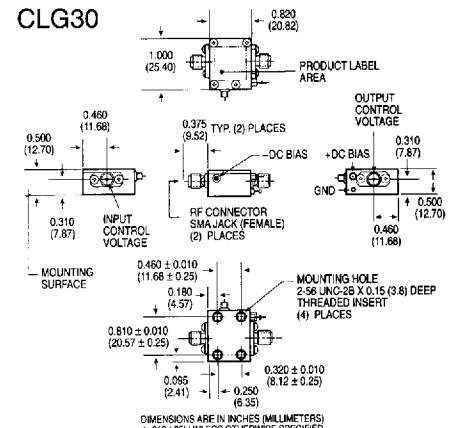
DIMENSIONS ARE IN INCHES (MILLIMETERS)
 $\pm .005$ (.13) UNLESS OTHERWISE SPECIFIED

SMLG30



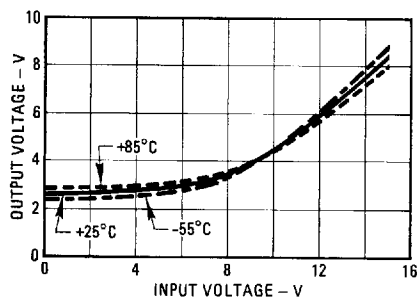
DIMENSIONS ARE IN INCHES (MILLIMETERS)
 $\pm .010$ (.25) UNLESS OTHERWISE SPECIFIED

CLG30



Typical Performance at 25°C

V_{Out} vs. V_{Control}



Attenuation vs. V_{Control}

