## TO-8 Thin-Film Linearizer For The G30



Rev. V2

### Features

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

## **Ordering Information**

Part Number	Package	
LG30	TO-8	
MAHY-008743-SMLG30	Surface Mount	
MAHY-008743-0CLG30	SMA Connectorized **	

\*\* The connectorized version is not RoHs compliant.

## Linearity Specifications: Frequency: 100 - 2000 MHz, attenuation range: 3 to 25 dB

Temperature	Units	Typical	Guaranteed Max.
25°C	dB	±1.0	±1.5
-54°C to +85°C	dB	< ±1.5	±2.0

## **Typical Current Drain**

	Units	Control Voltage= 0 V (Min. Attenuation)`	Control Voltage= 15 V (Max. Attenuation)
V- V+ V <sub>CON</sub>	mA mA mA	3 5 6	15 14 12
Combination of LG30 Plus G30 V- V+ V <sub>CON</sub>	mA mA mA	3 12 6	15 21 12

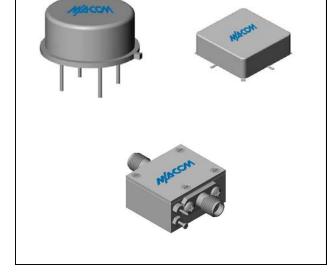
<sup>1</sup> 

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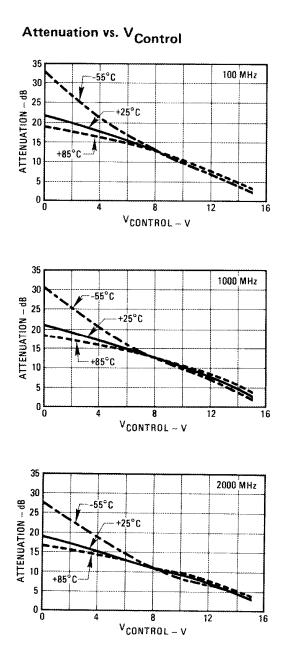
## LG30 / SMLG30

## TO-8 Thin-Film Linearizer For The G30

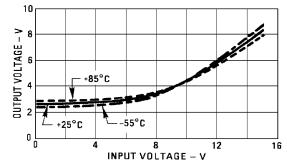


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### **Typical Performance Curves**







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# LG30 / SMLG30

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Technology Solutions

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### **Absolute Maximum Ratings**

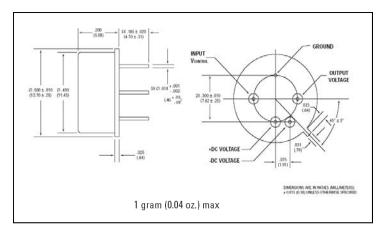
Parameter	Absolute Maximum
Storage Temperature	-62°C to +125°C
Maximum Case Temperature	125°C
Maximum DC Voltage	+17 Volts
"S" Series Burn-in Temperature (Case)	125°C

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

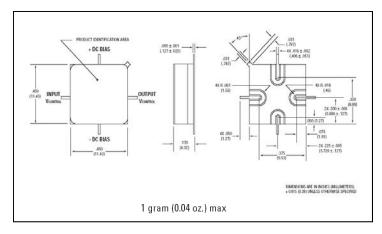
- 1. Positive supply =  $15V \pm 1\%$
- 2. Negative supply =  $-15V \pm 1\%$

Source resistance of variable supply  $\leq 1 \Omega$ 3. The LG30 has a response time of 2 µs over its entire band of control voltage. The response time of the G30 is typically 0.2 µs.

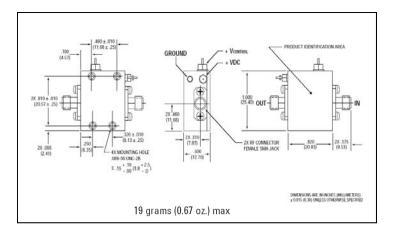
### **Outline Drawing: TO-8**



### **Outline Drawing: Surface Mount**



### **Outline Drawing: SMA Connectorized**



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