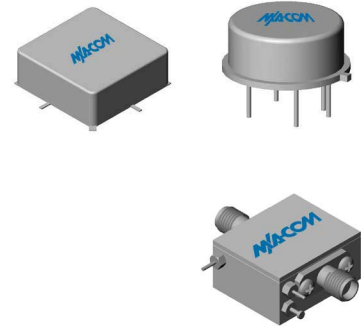




# LG30 / SMLG30

## TO-8 THIN-FILM LINEARIZER FOR THE G30

- WIDE TEMPERATURE OPERATION
- YIELDS LINEAR ATTENUATION (dB)  
FOR LINEAR CONTROL VOLTAGE



### Linearity Specifications (Rev. Date: 3/02)\*

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

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

### Typical Current Drain

|                                | Control Voltage = 0 V<br>(Max. Attenuation) | Control Voltage = 15 V<br>(Min. Attenuation) |
|--------------------------------|---------------------------------------------|----------------------------------------------|
| -V                             | 3 mA                                        | 15 mA                                        |
| +V                             | 5 mA                                        | 14 mA                                        |
| V <sub>con</sub>               | 6 mA                                        | 12 mA                                        |
| Combination of<br>LG30 and G30 |                                             |                                              |
| -V                             | 3 mA                                        | 15 mA                                        |
| +V                             | 12 mA                                       | 21 mA                                        |
| V <sub>con</sub>               | 6 mA                                        | 12 mA                                        |

### Absolute Maximum Ratings

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

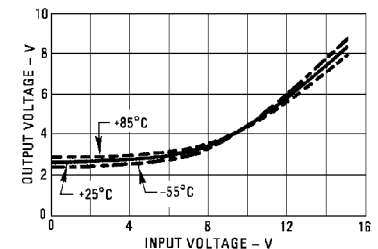
### Outline Drawings

|         |      |               |                   |
|---------|------|---------------|-------------------|
| Package | TO-8 | Surface Mount | SMA Connectorized |
| Figure  | BJ   | AD            | CG                |
| Model   | LG30 | SMLG30        | CLG30             |

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### Typical Performance @ 25°C

V<sub>Out</sub> vs. V<sub>Control</sub>



Attenuation vs. V<sub>Control</sub>

