

# RF Linearized Attenuator

Attenuation Slope: 5 dB per Volt

# Model TGLR9025

5 to 1000 MHz

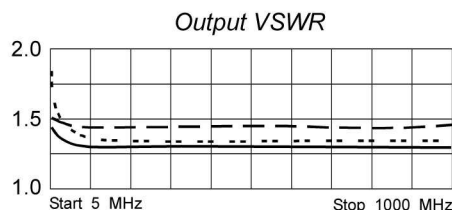
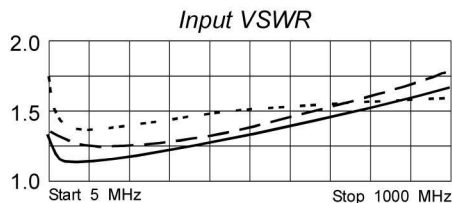
## Features

- Linearized; 5 MHz to 1000 MHz
- Attenuation Slope: 5 dB per Volt
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening Available

## Specifications

| CHARACTERISTIC                | TYPICAL<br>Ta= 25 °C | MIN/MAX<br>Ta = -55 °C to +85 °C |
|-------------------------------|----------------------|----------------------------------|
| Frequency                     | 5 - 1000 MHz         | 5 - 1000 MHz                     |
| <b>Linearity</b>              |                      |                                  |
| 6 - 51 dB      5 MHz          | <±2                  | ±4 Max.                          |
| 6 - 48 dB      500 MHz        | <±2                  | ±4 Max.                          |
| 6 - 42 dB      1000 MHz       | <±2                  | ±4 Max.                          |
| <b>VSWR (Worst Case) (dB)</b> |                      |                                  |
| 5 - 500 MHz                   | <1.5:1               | 2.0:1 Max.                       |
| 5 - 1000 MHz                  | <1.75:1              | 2.0:1 Max.                       |
| <b>Bias Power</b> Vdc         | +15                  | +15                              |
| mA                            | 22                   | 30 Max.                          |
| <b>Bias Power</b> Vdc         | -15                  | -15                              |
| mA                            | 3                    | 5 Max.                           |
| <b>Control Power</b> Vdc      | -1 to -10            | -1 to -10                        |
| 10% to 90 %      mA           | 1.25 to 2.5          | 0.75 to 4 Max.                   |
| <b>Switching Speed</b> (µsec) | 50                   | 120 Max.                         |

Note: Care should always be taken to effectively ground the case of each unit.



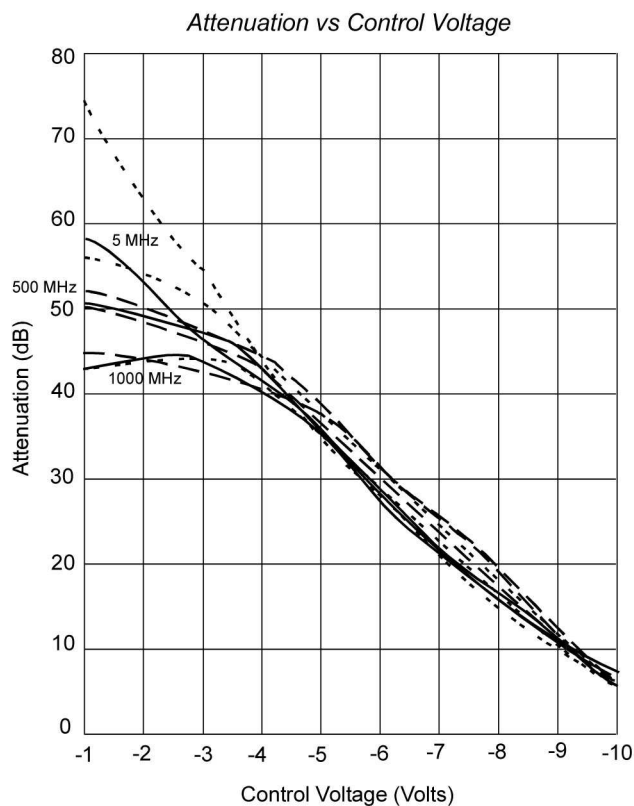
## Maximum Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 18 Volts  
 Continuous RF Input Power ..... + 23 dBm  
 Short Term RF Input Power ..... 500 Milliwatts (1 MinuteMax.)  
 Maximum Peak Power ..... 1 Watt (3 µsec Max.)

## Packaging Options (see Appendix)

TGLR9025, 12 Pin TO-8B (T9)  
 TGLWN9025, 10 Pin .625" Sq. Gullwing (SG4)

## Typical Performance Data



Legend ——— + 25 °C    --- + 85 °C    - - - - -55 °C

