# RF Hybrid Linearizers
## 2.5 dB Change per Control Volt

# Model TL9007
## 10 to 1000 MHz

### Features
- 10 - 1000 MHz Linearizer for TG9001
- 2.5 dB Change Per Control Volt.
- Specifications Guaranteed
- 5 Pin TO-8 Metal Hermetic Package
- Operating Temp. -55 ºC to + 100 ºC

### Maximum (No Damage) Ratings
Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... +15 Volts

**Packaging Options (see Appendix)**
TNL9007, 4 Pin Surface Mount (SM3)
TL9007, 5 Pin TO-8 (T4)
BXL9007, Connectorized Housing (H1)

### Specifications
**10 - 1000 MHz**

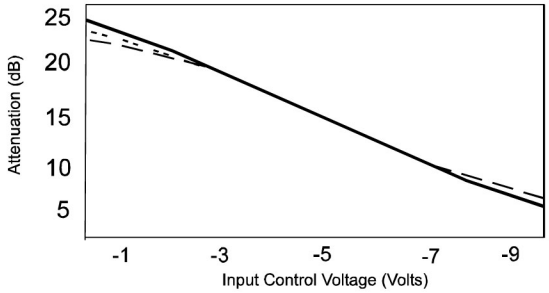
| LINEARITY | TYP | MAX |
|---|---|---|
| 3 - 20 dB | < + 1 dB | < + 2 dB |

| TYPICAL POWER TL9007 | | |
|---|---|---|
| | **Max Attn.** | **Min Attn.** |
| **POWER SUPPLY** | Vcon = -1 | Vcon = -10 |
| + 12 Vdc + 1% | 4 mA | 6 mA |
| - 12 Vdc + 1% | 4 mA | 7 mA |
| Vcon | 2 mA | 3 mA |

| TYP. POWER TL9007 & TG9001 CASCADED | | |
|---|---|---|
| | **Max Attn.** | **Min Attn.** |
| **POWER SUPPLY** | Vcon = -1 | Vcon = -10 |
| + 12 Vdc + 1% | 10 mA | 16 mA |
| - 12 Vdc + 1% | 4 mA | 7 mA |
| Vcon | 2 mA | 3 mA |

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

Attenuation TG9001, TL9007 vs. Input Control Voltage




— — — 10 MHz
——— 500 MHz
- - - - - 1000 MHz

Output Voltage vs. Input Voltage

