



Voltage Controlled Signal Limiter 5 to 1000 MHz

Technical Data

GPL-1001

Features

- 5 to 1000 MHz Frequency Coverage
- Voltage Controllable
- VSWR \leq 2.0:1

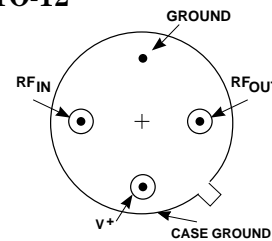
Applications

- Protection for Detectors, Mixers, and Amplifiers
- Cascadable Gain Control
- EW Receiver Circuits
- Wideband System Protection

Description

The GPL-1001 is a voltage controlled signal limiter which covers the 5 to 1000 MHz frequency range. This thin-film limiter features a voltage programmable output level with an input level as high as +26 dBm. It has low VSWR, low insertion loss, excellent second- and third-harmonic suppression, and very low AM-to-PM conversion. Recovery from fully saturated input levels is less than 50 nanoseconds. The GPL-1001 is provided in the TO-12 package.

Pin Configuration TO-12

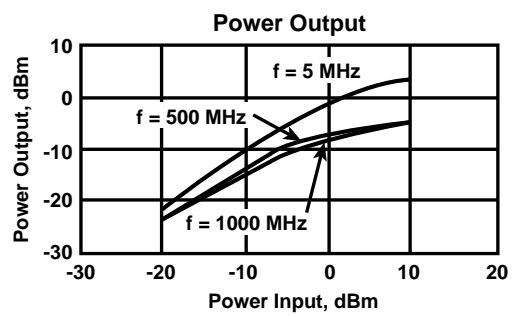
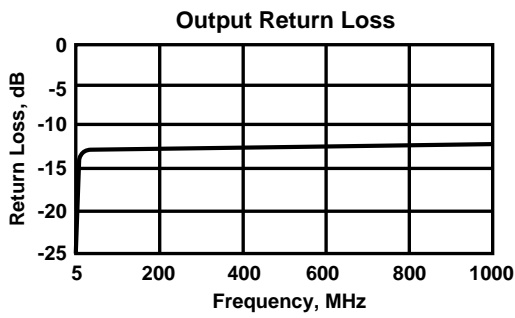
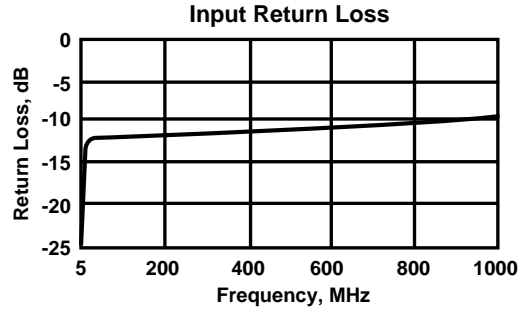
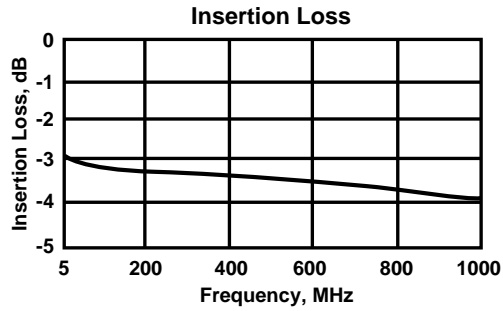


Electrical Specifications* (Measured in a 50-ohm system @ +15 VDC nominal unless otherwise noted)

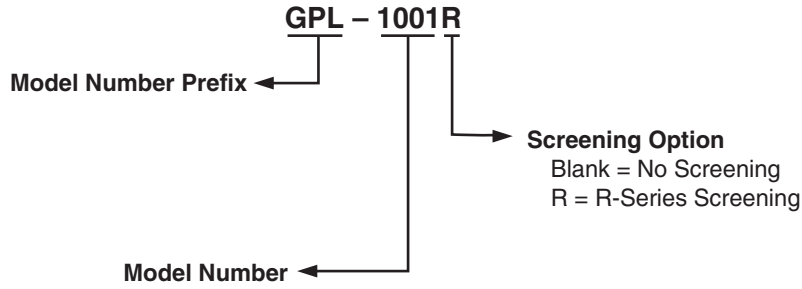
Model	Frequency Response (MHz) Minimum	Limited Output Power (@ +10 dBm P _{IN}) dBm		Insertion Loss Small Signal (+dB) Typical	Output Power Flatness (\pm dB) Typical	VSWR Typical		Third-Harmonic Power (dBm) Typical	Second-Harmonic Power (dBm) Typical	Operating Bias		Maximum Recommend Input Power (dBm)	Maximum Recommend Bias (VDC)
		Maximum	Typical			Input	Output			VDC Nominal	Current (mA) Typical		
GPL-1001	5-1000	-4.0	(-8 typ)	5.0	1.0	2.0	2.0	-12	-30	+15	5	+26	+20

* Limiter incorporates DC coupled diodes shunted to ground at input pin.

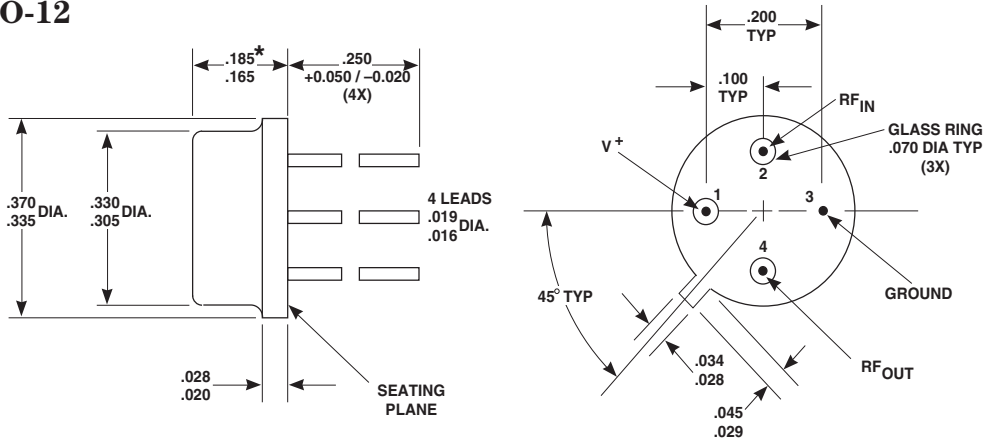
Weight: (typical) 1.5 grams

Typical Performance At 25°C Temperature (at +15 VDC unless otherwise noted)

Product Options



Case Drawings TO-12



APPROXIMATE WEIGHT 1.7 GRAMS

*NOTES (UNLESS OTHERWISE SPECIFIED):
 1. FOR GPD-405 (TO-12T CASE) THESE DIMENSIONS ARE: $\frac{.230}{.260}$
 2. DIMENSIONS ARE SPECIFIED IN INCHES

NOTES (UNLESS OTHERWISE SPECIFIED):
 1. DIMENSIONS ARE SPECIFIED IN INCHES
 2. TOLERANCES: xx ± .02
 xxx ± .010

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www.teledynemicrowave.com