TH8018T1 Threshold Detector

8.0-18.0 GHz Broadband





Technical Characteristics

Product Features

High reliability hermetically sealed

10 dB dynamic range: -20 dBm to -10dBm

Propagation delay: 10 nS typical

TTL logic output

Minimum pulse width: 50 nS typical

Temperature stability: 1.0 dB Typ., 3 dB above threshold setting

Threshold setting internally fixed or external voltage

DC power (no load): ±5 VDC @ 100mA max.

Max. Ratings	
Storage Temperature:	-65°C to +125°C
Operating Temperature:	-55°C to +90°C
Maximum input nower	+25dBm Peak +20dBm CW

Product Export Classification

ECCN: EAR99 (Unless otherwise specified)

HTS: 8542330000

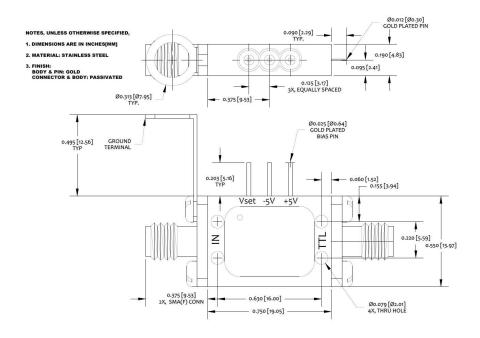
Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Frequency Range	8.0 to 18.0				GHz
Threshold Variation			0.75		+/- dB
VSWR			3.0:1		

NOTES:

1. Response time for input change > 3dB above CW threshold. R(load)=1M Ω , C(load)=100pF

Outline Drawing







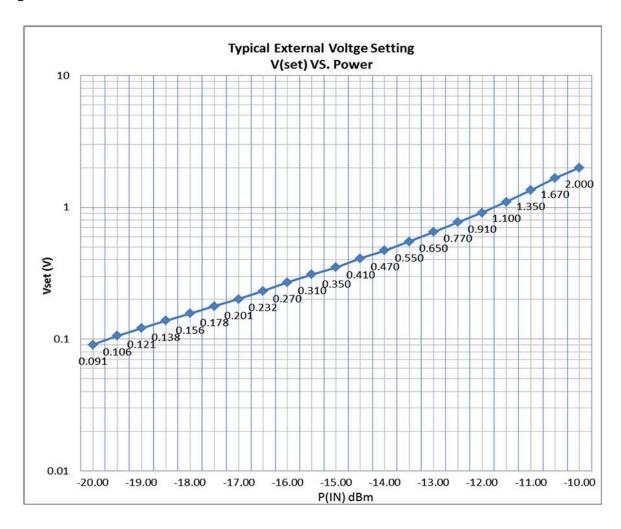


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Typical Regulated Vset Curve @ +25°C



DISCLAIMER: Subject to change without notice. Rev(A) 01/16/20



