

TH0518T1 Threshold Detector

0.5-18.5 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 power:	+25dBm Peak, +20dBm CW

Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Frequency Range	0.5 to 18.5				GHz
Threshold Variation			1.0		+/- dB
VSWR			3.5:1		

NOTES:

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

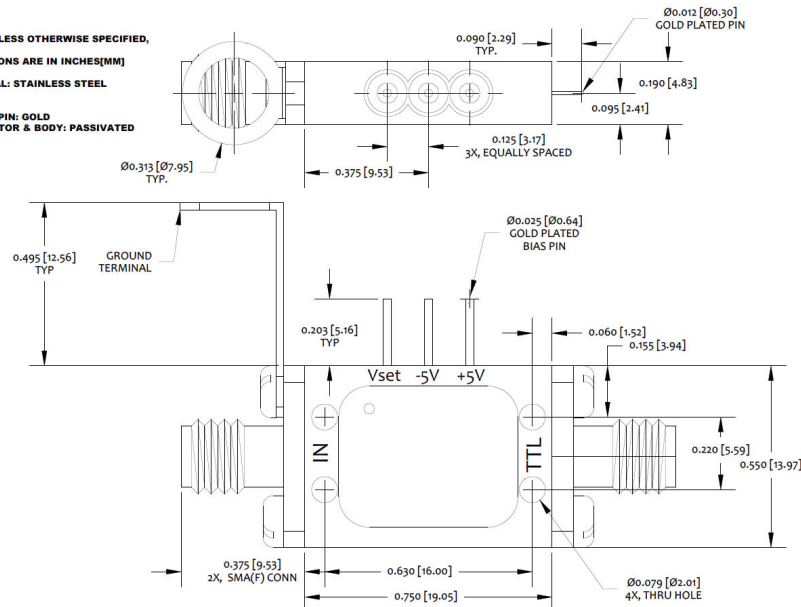
Outline Drawing

NOTES, UNLESS OTHERWISE SPECIFIED,

1. DIMENSIONS ARE IN INCHES[MM]

2. MATERIAL: STAINLESS STEEL

3. FINISH:
BODY & PIN: GOLD
CONNECTOR & BODY: PASSIVATED



Product Export Classification
ECCN: EAR 99 (unless
otherwise specified)
HTS: 8541.10.0060



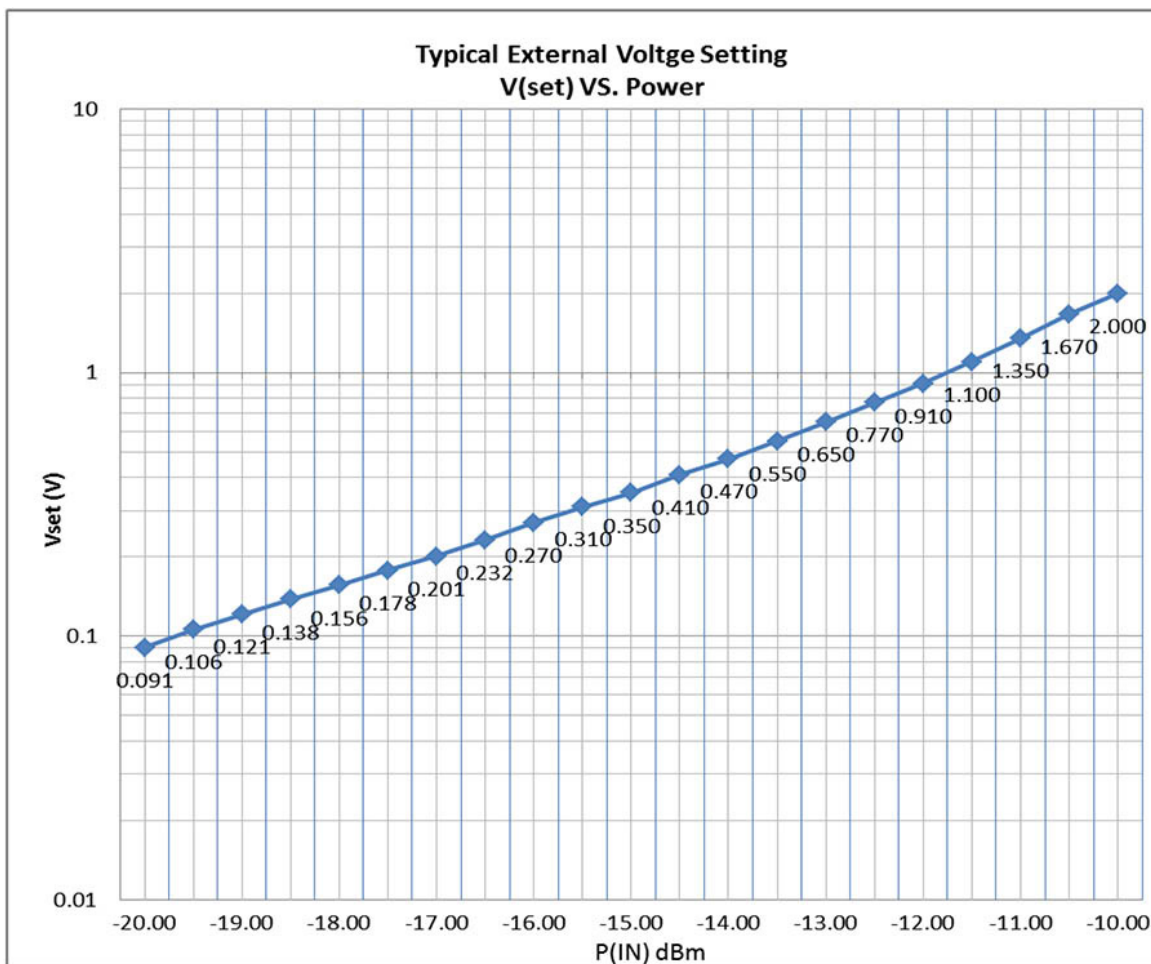
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Typical Regulated Vset Curve @ +25°C



DISCLAIMER: Subject to change
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