

Description:

PMI Model Number: TD-1G12G-RL-CD-SFF-NH is a High Speed Threshold Detector designed to operate over the 1 to 12GHz Frequency Range, with an Adjustable Threshold Level of -30 to -10dBm, VSWR of 3.0:1 Typical. This Unit comes in a Very Small Size with Field Removable SMA Connector on the Input and Output. This unit has active high output.

SPECIFICATIONS

- FREQUENCY RANGE: 1.0 GHz TO 12.0 GHz MINIMUM
- VSWR: 3.0:1 TYPICAL
- DYNAMIC RANGE: -30 dBm TO +10 dBm
- THRESHOLD VARIATION: ± 1.5 dB MAXIMUM (WITH FREQUENCY)
- PROPAGATION DELAY: 10 ns TYPICAL, 3 dB ABOVE THRESHOLD SETTING (50% RF INPUT TO 50% LOGIC AT -10dBm)
- MINIMUM PULSE WIDTH: 50 ns TYPICAL
- OUTPUT: TTL "1" INPUT POWER > THRESHOLD SETTING, TTL "0" OTHERWISE
- TEMPERATURE STABILITY: 1.0 dB TYPICAL, 3 dB ABOVE THRESHOLD SETTING
- THRESHOLD SETTING — EXTERNAL VOLTAGE CONTROL: 0 TO +5V
- THRESHOLD LEVEL — -30 TO -10 dBm SETTING RANGE:
- INPUT POWER: 100 mW CW MAXIMUM
- POWER SUPPLY: +/ -5V @ 100 mA TYPICAL
- CONNECTORS:
 - RF: REMOVABLE SMA (FEMALE)
 - OUTPUT: REMOVABLE SMA (FEMALE)
 - THRESHOLD ADJUST: SOLDER PIN
- SIZE: 1.10" x 0.60" x 0.19"
- FINISH: GOLD PLATED

Environmental Ratings:

Temperature: -25°C to + 85°C (Operating)
-65°C to +125°C (Storage)

Humidity: MIL-STD-202F, METHOD 103B COND B.

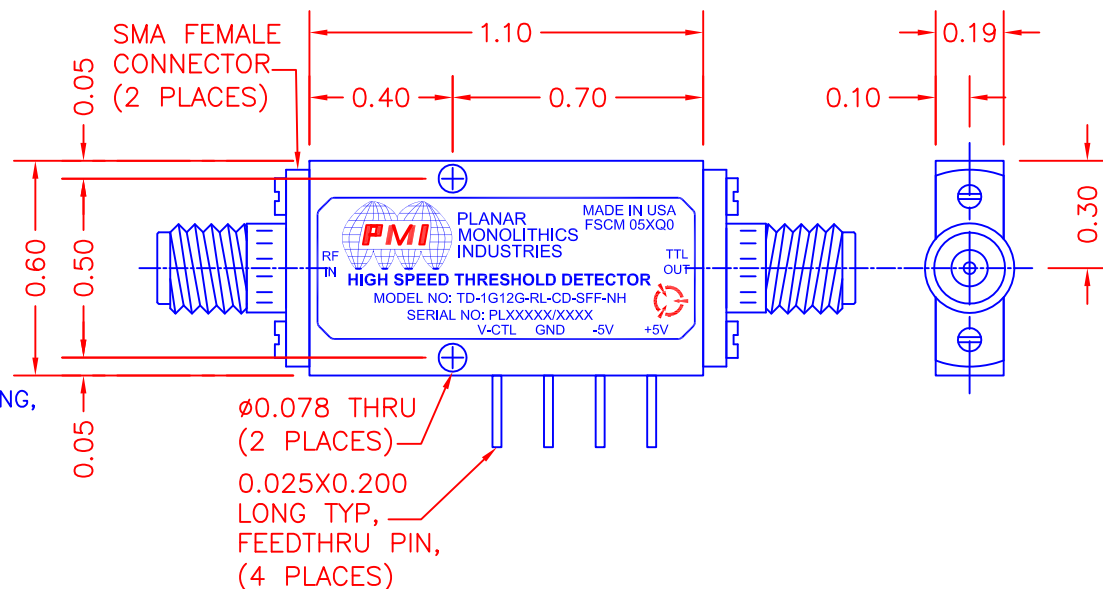
Shock: MIL-STD-202F, METHOD 213B COND B.

Altitude: MIL-STD-202F, METHOD 105C COND B.

Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	9/11/16	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

APPROVALS		DATE	TITLE PRODUCT FEATURE TD-1G12G-RL-CD-SFF-NH			
DRAWN		9/11/16				
EMF						
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	—
ISSUED			SCALE	N:S	SHEET	1 OF 1