

Description:

PMI Model Number: TD-1G12G-RL-CD-SFF 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 low 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 "0" INPUT POWER > THRESHOLD SETTING, TTL "1" 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.

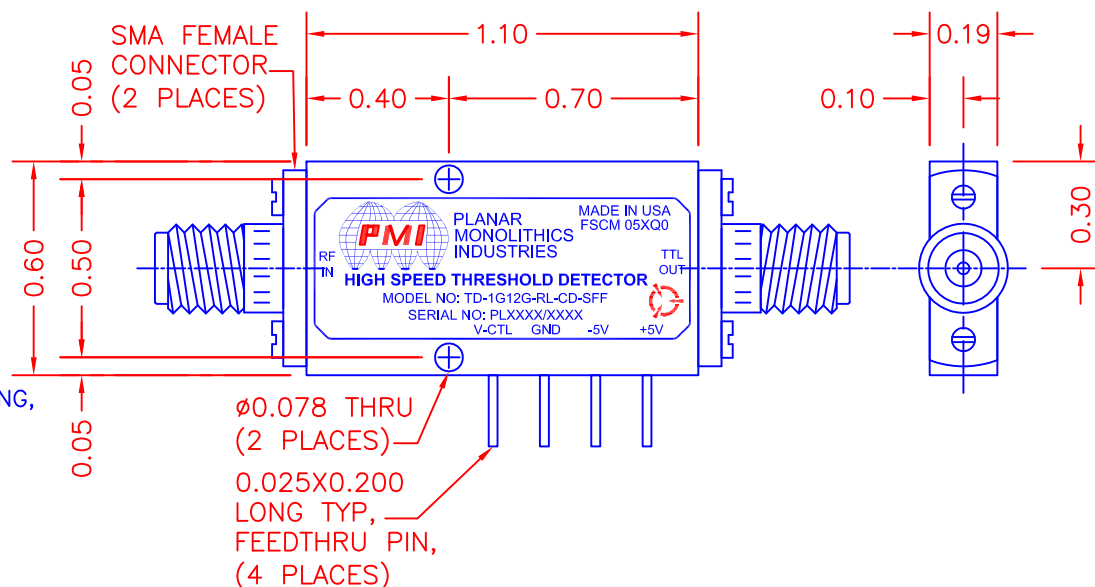
Shock: MIL-STD-202F, METHOD 213B COND B.

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
	1	ORIGINAL RELEASE	5/29/14	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

4921 ROBERT J. MATHEWS PARKWAY, SUITE 1
EL DORADO HILLS, CA 95762
TEL: 916-542-1401 FAX: 916-265-2597
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com



ISO 9001 CERTIFIED

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

		TITLE									
APPROVALS		DATE		PRODUCT FEATURE TD-1G12G-RL-CD-SFF							
DRAWN DPD		5/29/14									
CHECKED				SIZE		FSCM NO.		DWG NO.		REV.	
				A		05XQ0		27023441		1	
ISSUED				SCALE		N:S		SHEET		1 OF 1	