

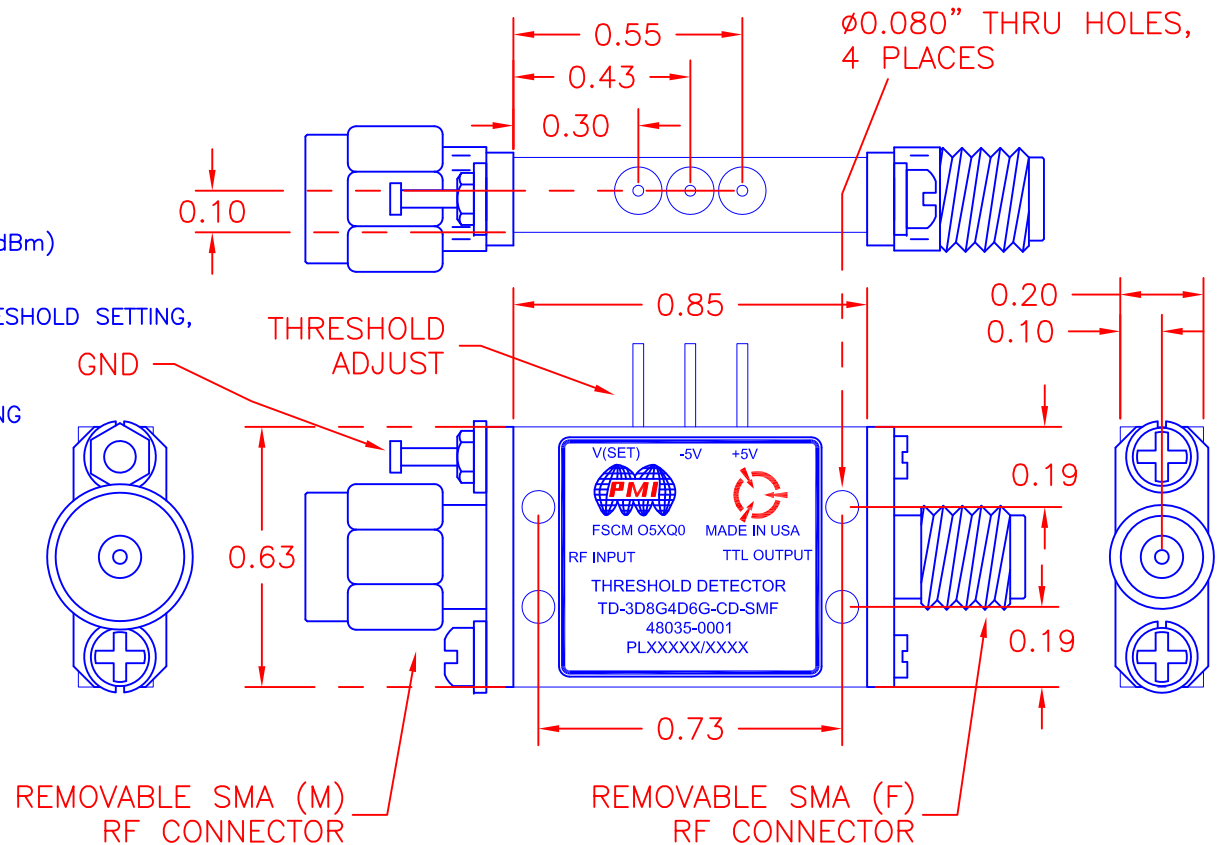
DESCRIPTION

PMI MODEL TD-3D8G4D6G-CD-SMF IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 3.8 TO 4.6 GHz FREQUENCY RANGE. IT HAS AN EXTERNAL ADJUSTMENT TO VARY THE THRESHOLD LEVEL FROM -20dBm TO 0dBm.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	08/20/12	
	A2	ECN # 13-0216	12/02/13	

SPECIFICATIONS

- FREQUENCY RANGE: 3.8 TO 4.6 GHz MINIMUM
- VSWR: 2.6:1 TYPICAL
- DYNAMIC RANGE: -20dBm TO +10dBm
- THRESHOLD VARIATION: ±0.75dB MAXIMUM (WITH FREQUENCY)
- PROPAGATION DELAY: 10ns TYPICAL, 3 dB ABOVE THRESHOLD SETTING (50% RF INPUT TO 50% LOGIC AT -10dBm)
- MINIMUM PULSE WIDTH: 50ns TYPICAL
- OUTPUT: TTL "1" INPUT POWER > THRESHOLD SETTING, TTL "0" OTHERWISE
- TEMPERATURE STABILITY: 1.0dB TYPICAL, 3dB ABOVE THRESHOLD SETTING
- THRESHOLD SETTING: EXTERNAL VOLTAGE CONTROL 0 TO +5V
- THRESHOLD LEVEL: -20dBm TO 0dBm SETTING RANGE:
- INPUT POWER: 100 mW CW MAXIMUM
- POWER SUPPLY: ±5V @ 100 mA TYPICAL
- CONNECTORS:
 - RF INPUT: REMOVABLE SMA (MALE)
 - TTL OUTPUT: REMOVABLE SMA (FEMALE)
 - THRESHOLD ADJUST: SOLDER PIN
- SIZE: 0.85" x 0.625" x 0.20"
- FINISH: PAINTED GRAY



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +95°C (OPERATING) -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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APPROVALS		DATE	TITLE			
DRAWN <i>afk</i>		08/20/12	PRODUCT FEATURE TD-3D8G4D6G-CD-SMF			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27017201	A2
			SCALE	N:S	SHEET	1 OF 1