

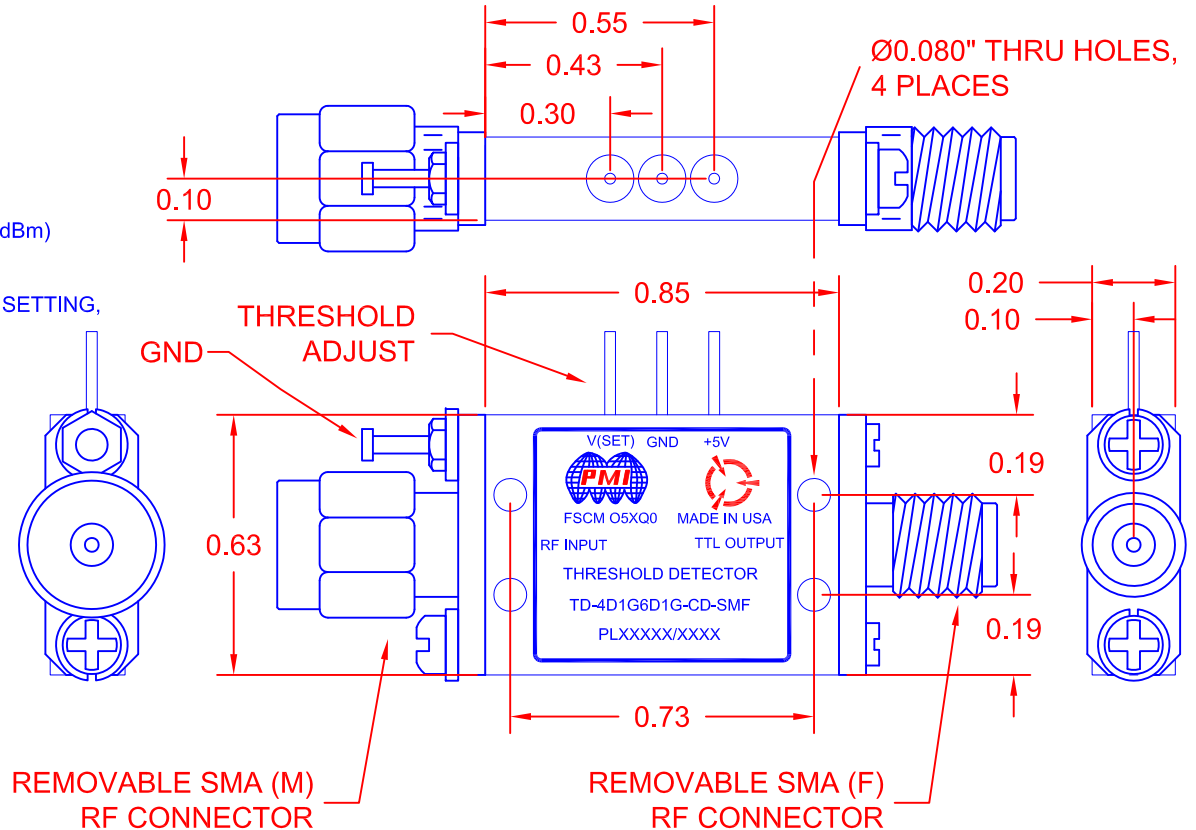
DESCRIPTION

PMI MODEL TD-4D1G6D1G-CD-SMF IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 4.1 TO 6.1 GHz FREQUENCY RANGE. IT HAS AN EXTERNAL ADJUSTMENT TO VARY THE THRESHOLD LEVEL FROM -20 dBm TO 0 dBm.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/16/15	
	A1	ECN # 15-0168	12/08/15	

SPECIFICATIONS

- FREQUENCY RANGE: 4.1 TO 6.1 GHz MINIMUM
- VSWR: 2.6:1 TYPICAL
- DYNAMIC RANGE: -20 dBm TO +10 dBm
- THRESHOLD VARIATION: ±0.75 dB MAXIMUM (WITH FREQUENCY)
- PROPAGATION DELAY: 10 ns TYPICAL, 3 dB ABOVE THRESHOLD SETTING (50% RF INPUT TO 50% LOGIC AT -10 dBm)
- 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 +5 V
- THRESHOLD LEVEL: -20 dBm TO 0 dBm SETTING RANGE:
- INPUT POWER: 100 mW CW MAXIMUM
- POWER SUPPLY: +5 V @ 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: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.



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

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		12/08/15	PRODUCT FEATURE TD-4D1G6D1G-CD-SMF			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27028441	A1
			SCALE	N:S		SHEET 1 OF 1