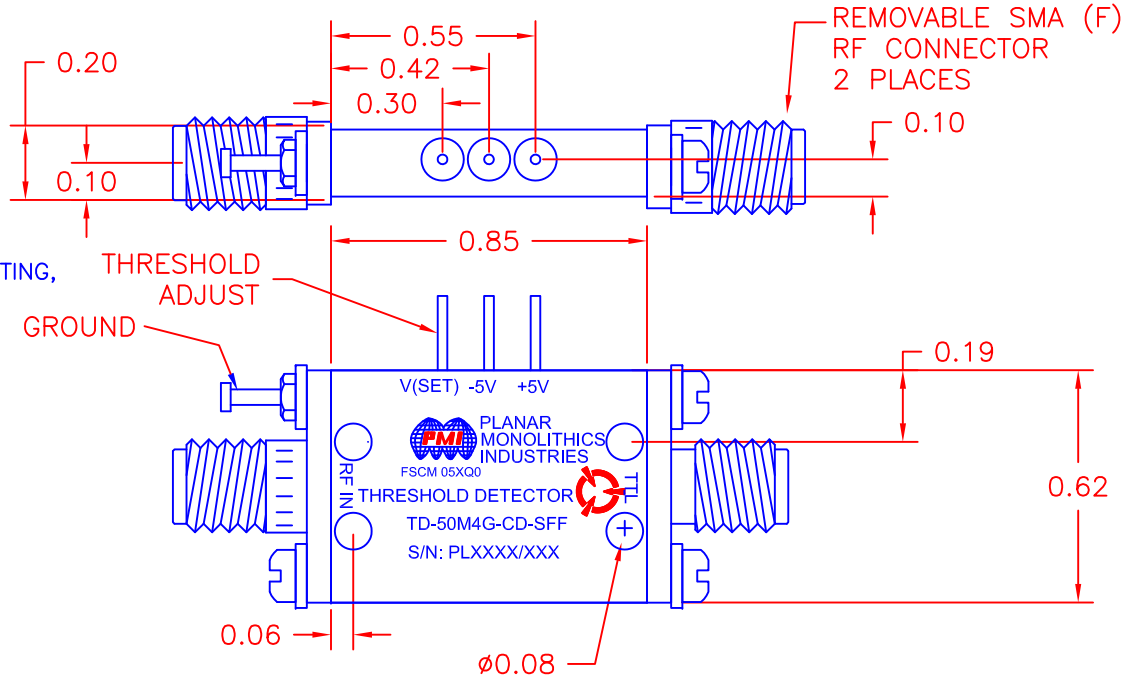
DESCRIPTION

PMI MODEL TD-50M4G-CD-SFF IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 50MHz TO 4.0 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
	A	ORIGINAL RELEASE	05/26/11	

SPECIFICATIONS

- FREQUENCY RANGE: 50 MHz TO 4.0 GHz MINIMUM
- VSWR: 2.6:1 TYPICAL
- DYNAMIC RANGE: −20 dBm TO +10 dBm
- THRESHOLD VARIATION: ±0.75 dB MAXIMUM (WITH FREQUENCY)
- PROPAGATION DELAY: 20 ns TYPICAL, 3 dB ABOVE THRESHOLD SETTING (50% RF INPUT TO 50% LOGIC AT −10dBm)
- MINIMUM PULSE WIDTH: 100 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 CONTROL: EXTERNAL VOLTAGE 0 TO +5V
- THRESHOLD LEVEL SETTING RANGE: −20 TO 0 dBm
- 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: 0.85" x 0.625" x 0.20"
- FINISH: PAINTED GRAY



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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ISO 9001:2000 CERTIFIED

APPROVALS	DATE
DRAWN KM	05/26/11
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
TD-50M4G-CD-SFF
50MHz – 4.0 GHz THRESHOLD DETECTOR

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27014961	A

SCALE N:S SHEET 1 OF 1