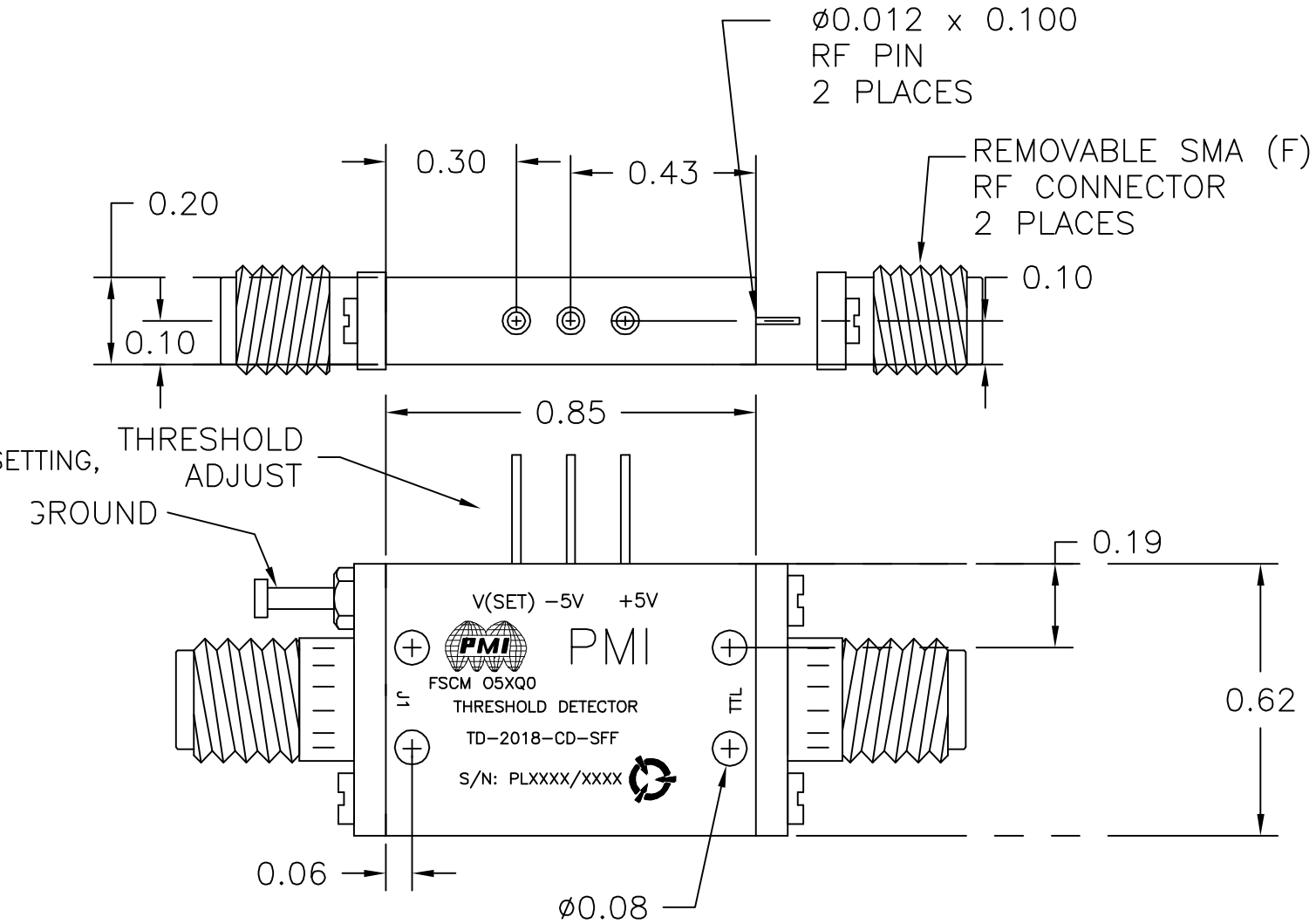
DESCRIPTION

PMI MODEL TD-2018-CD-SFF IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 2.0 TO 18.0 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	2/25/10	

SPECIFICATIONS

- FREQUENCY RANGE: ..... 2.0 GHz TO 18.0 GHz MINIMUM
- VSWR: ..... 3.0:1 TYPICAL
- DYNAMIC RANGE: ..... −20 dBm TO +10 dBm
- THRESHOLD VARIATION: ..... ±1.0 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 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 0.65" 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 DPD	2/25/10
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
TD−2018−CD−SFF
2.0 − 18.0 GHz THRESHOLD DETECTOR

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27012021	A

SCALE N:S SHEET 1 OF 2