

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.

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

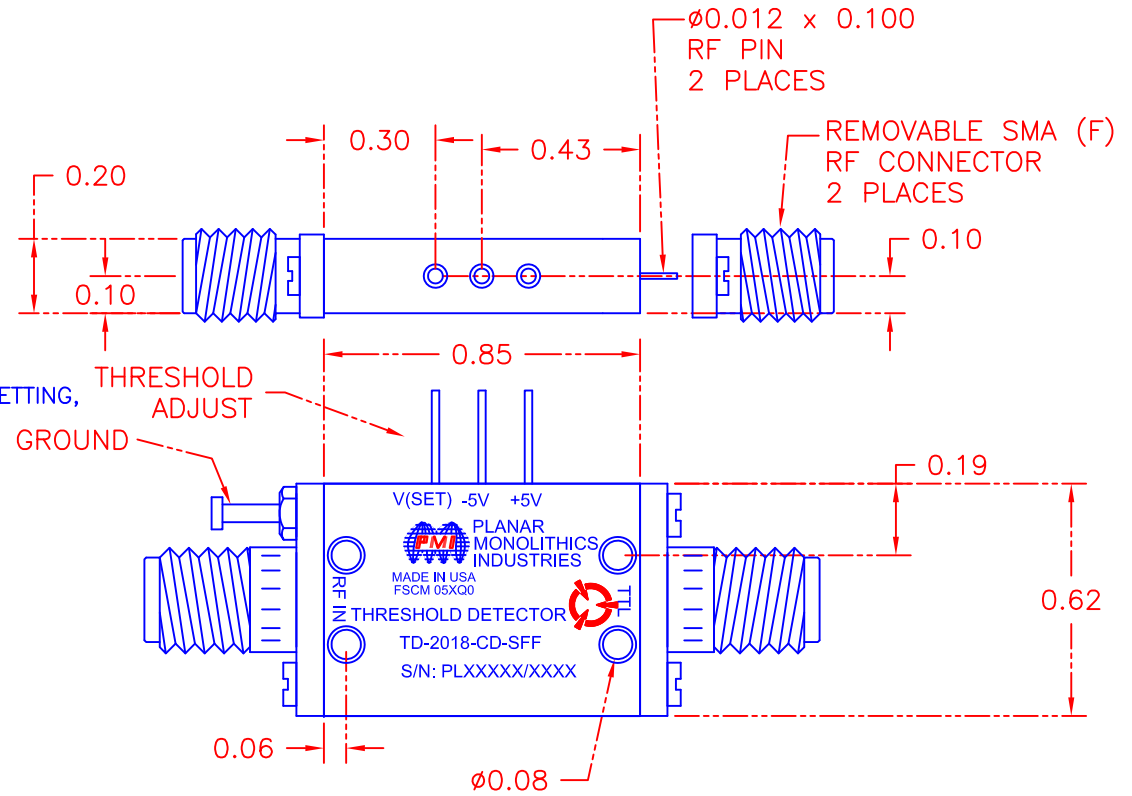
ENVIRONMENTAL RATINGS:

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/25/10	
	A2	ECN # 13-0054	05/31/13	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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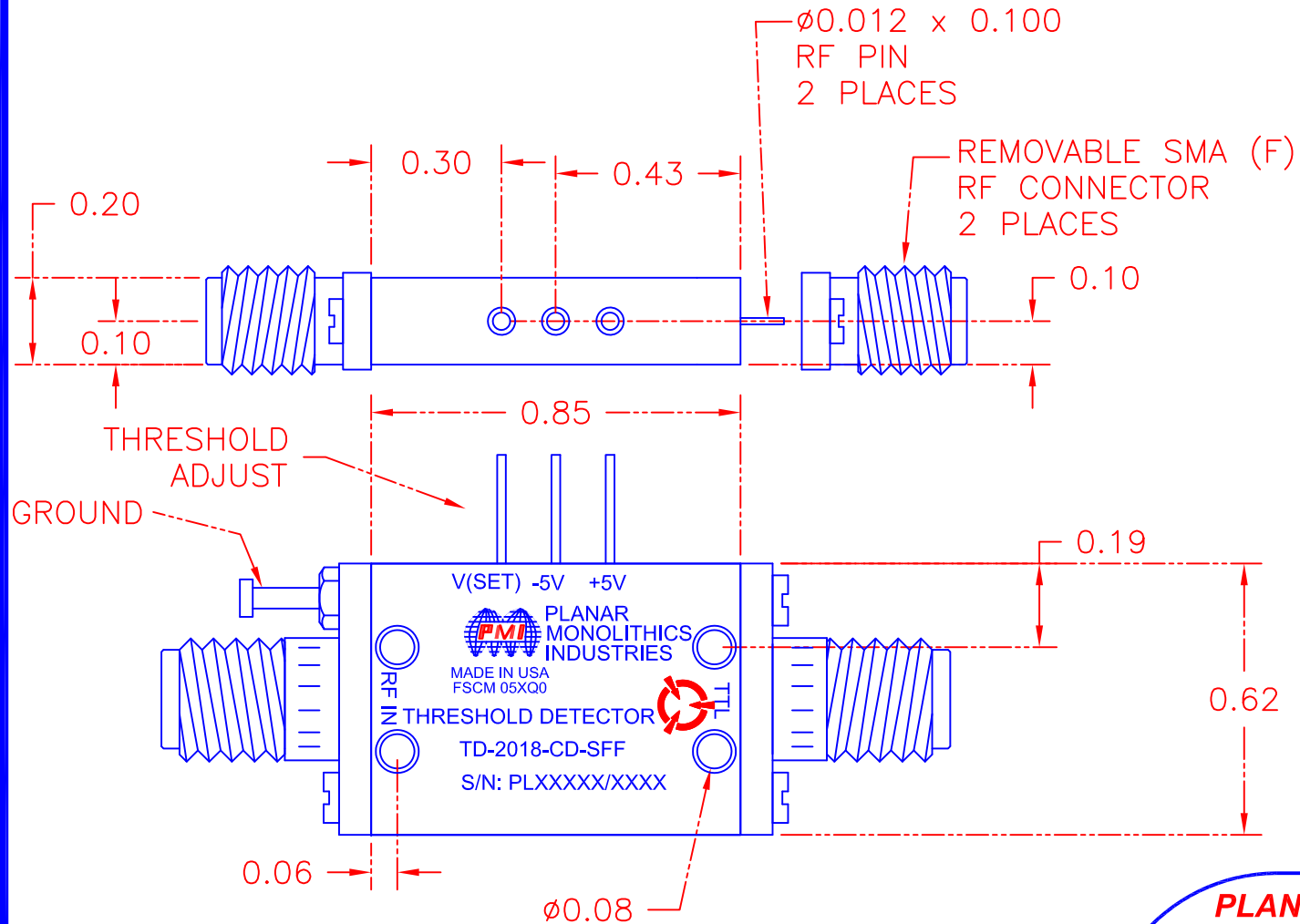
ISO 9001:2008 CERTIFIED

APPROVALS		DATE	TITLE			
DRAWN <i>DPD</i>		2/25/10	PRODUCT FEATURE TD-2018-CD-SFF 2.0 - 18.0 GHz THRESHOLD DETECTOR			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27012021	A2
			SCALE	N:S		SHEET
					1 OF 2	

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	2/25/10	
	A2	ECN # 13-0054	05/31/18	



MECHANICAL OUTLINE

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 TOLERANCES:
 X.XX ±0.020
 X.XXX ±0.010

APPROVALS		DATE	TITLE		
DRAWN <i>DPD</i>		2/25/10	MECHANICAL OUTLINE		
CHECKED			TD-2018-CD-SFF		
ISSUED			2.0 - 18.0 GHz THRESHOLD DETECTOR		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27012021	A2		
SCALE N:S		SHEET		2 OF 2	