

DESCRIPTION

PMI MODEL TD-0140-CD-SFF IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 0.1 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	2/25/10	

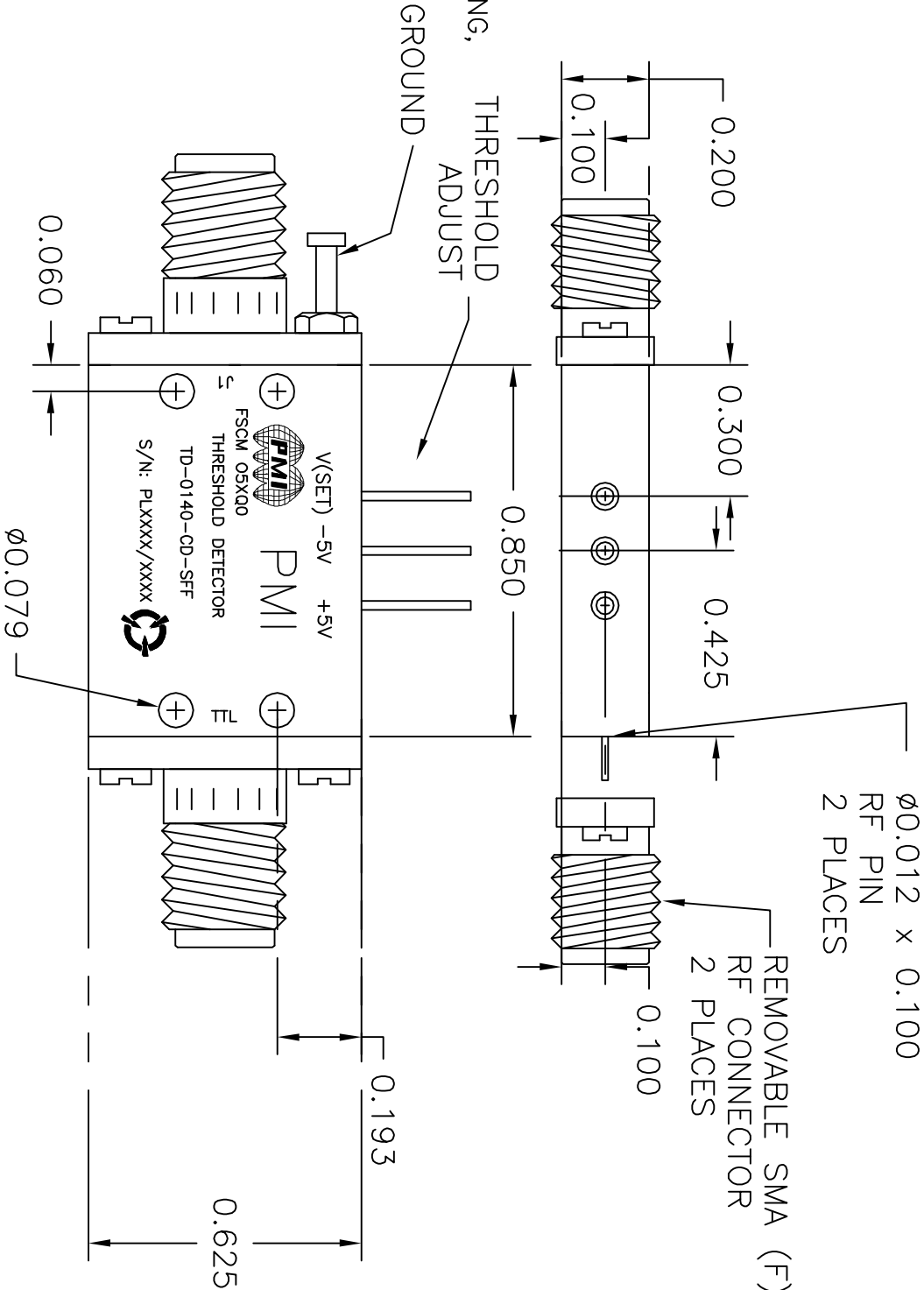
SPECIFICATIONS

- FREQUENCY RANGE:..... 100 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:..... 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..... EXTERNAL VOLTAGE CONTROL 0 TO +5V
- THRESHOLD LEVEL..... -20 TO 0 dBm SETTING RANGE:
- 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



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APPROVALS		DATE	TITLE			
DRAWN			PRODUCT FEATURE			
CHECKED			TD-0140-CD-SFF			
ISSUED			0.1 - 4.0 GHz THRESHOLD DETECTOR			
			SIZE	FSCM NO.	DWG NO.	REV.
			A	05X00	27012001	A
			SCALE	N:S	SHEET	1 OF 2