

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.

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 BLUE

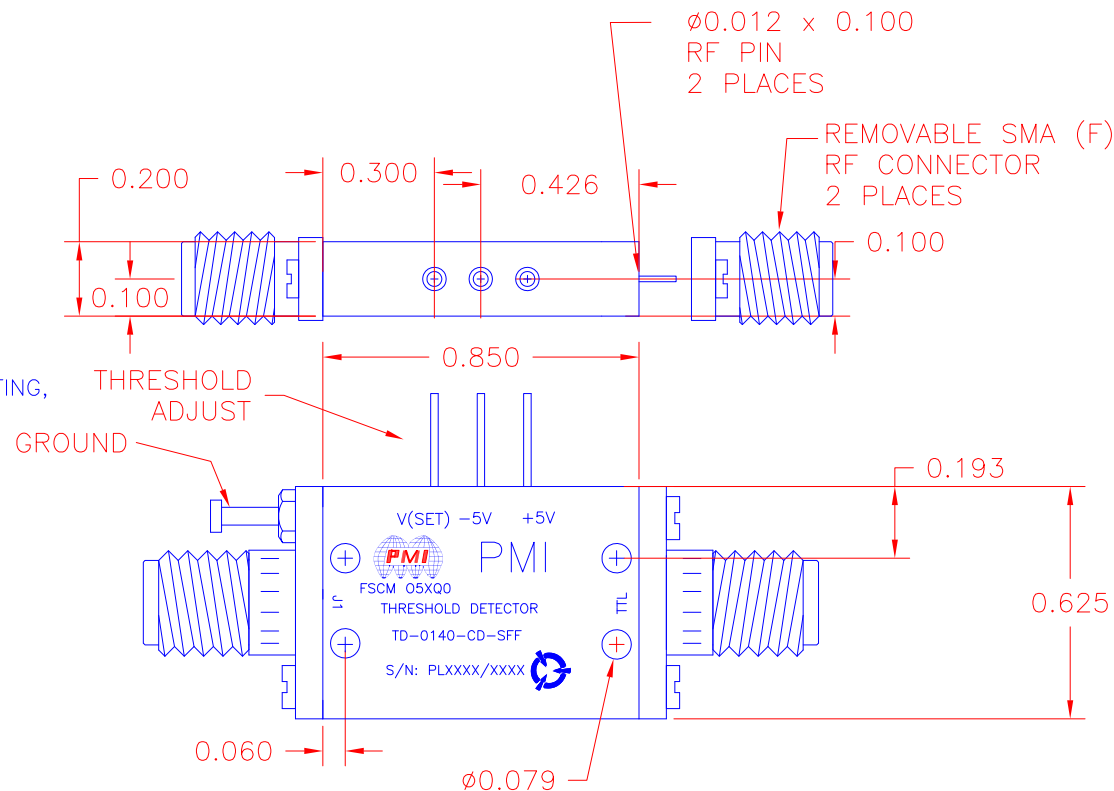
ENVIRONMENTAL RATINGS:

- 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
	A	ORIGINAL RELEASE	2/25/10	



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APPROVALS		DATE		TITLE		REV.	
DRAWN		2/25/10		PRODUCT FEATURE		A	
CHECKED				TD-0140-CD-SFF			
ISSUED				0.1 - 4.0 GHz THRESHOLD DETECTOR			
SIZE		FSCM NO.		DWG NO.			
A		05XQ0		27012001			
SCALE		N:S		SHEET		1 OF 1	