

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	

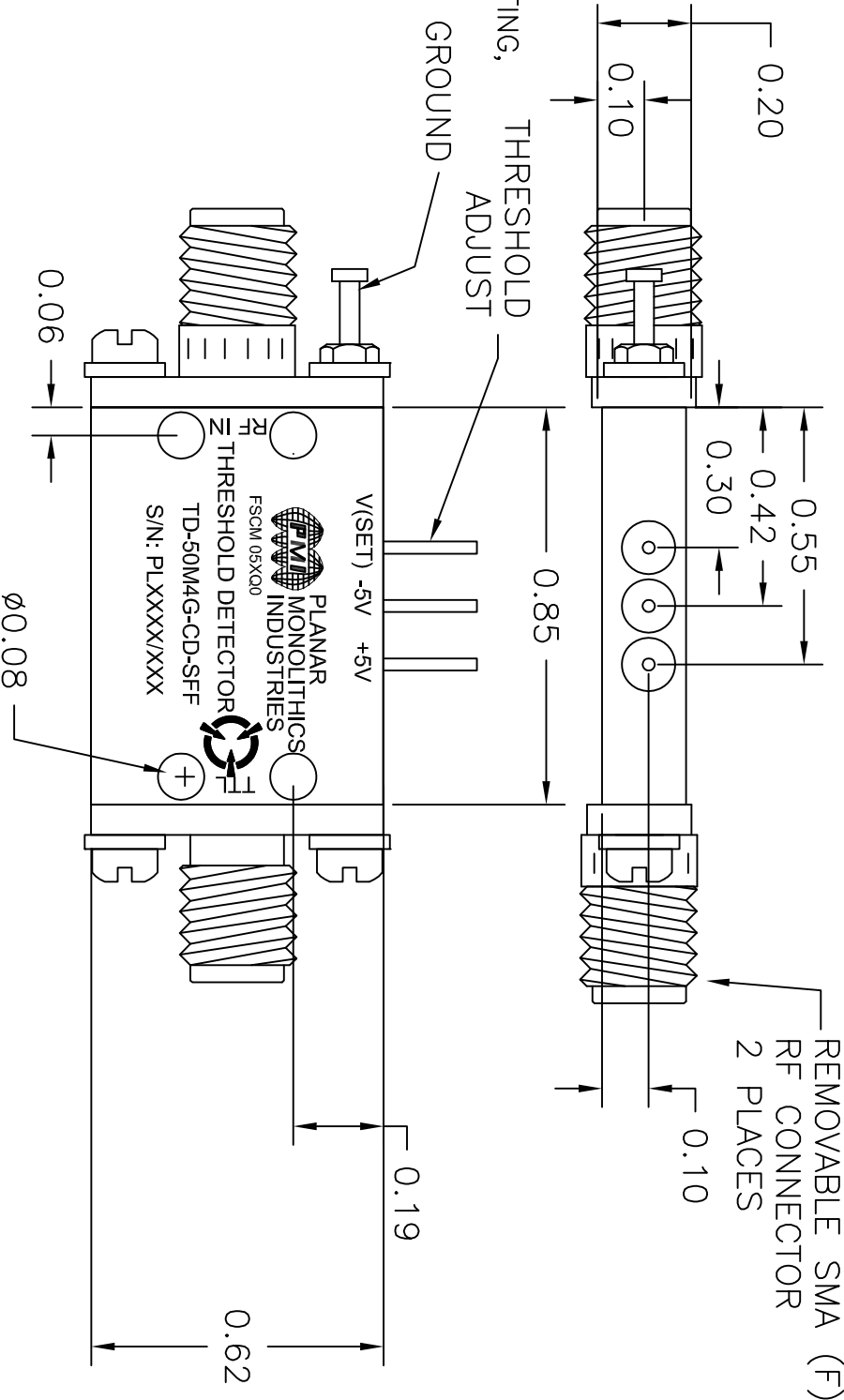
SPECIFICATIONS

- 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..... 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		05/26/11		PRODUCT FEATURE			
CHECKED				TD-50M4G-CD-SFF			
ISSUED				50MHz - 4.0 GHz THRESHOLD DETECTOR			
				SIZE		REV.	
				A		A	
				SCALE		SHEET	
				N:S		1 OF 1	