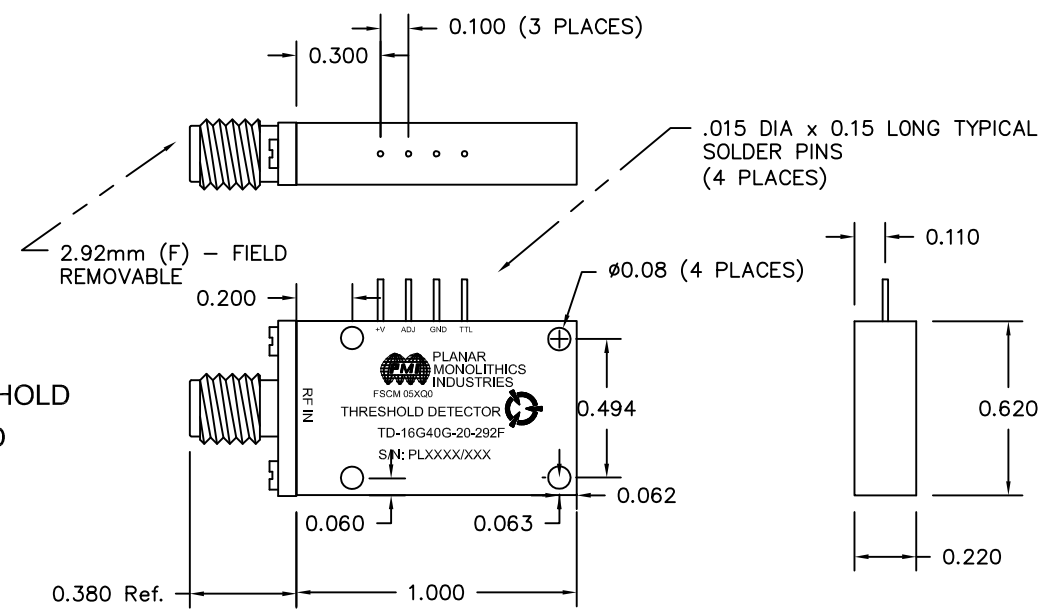
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	4/19/10	

DESCRIPTION:

PMI MODEL NUMBER TD-16G40G-20-292F IS A HIGH SPEED THRESHOLD DETECTOR THAT OPERATES OVER THE 16.0 TO 40.0GHZ FREQUENCY RANGE. THIS MODEL HAS AN INPUT OPERATING RANGE OF -20 TO 0DBM WITH A RESPONSE TIME OF 100NSEC MAXIMUM.

SPECIFICATIONS:

- FREQUENCY: 16.0 TO 40.0GHZ
- INPUT OPERATING RANGE -20 TO 0DBM
- MAXIMUM INPUT POWER +17DBM CW
- INPUT VSWR 2.5:1 MAXIMUM
- RESPONSE TIME 100NSEC MAXIMUM
- OUTPUT TTL
  TTL="1" FOR RF GREATER THAN THRESHOLD
  TTL="0" FOR RF LESS THAN THRESHOLD
- POWER SUPPLY: +15V @ 65 mA MAXIMUM



NOTE 1: THRESHOLD ADJUSTMENT IS MADE BY PLACING A RESISTOR BETWEEN ADJUST AND GROUND

CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -20°C TO +55°C (OPERATING)
  -55°C TO +100°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 107

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.010
X.XXX ±0.005

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
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WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001:2008 CERTIFIED

APPROVALS	DATE
DRAWN KM	4/19/10
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
TD-16G40G-20-292F
16 to 40GHz Threshold Detector

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27013186	A

SCALE N:S SHEET 1 OF 1