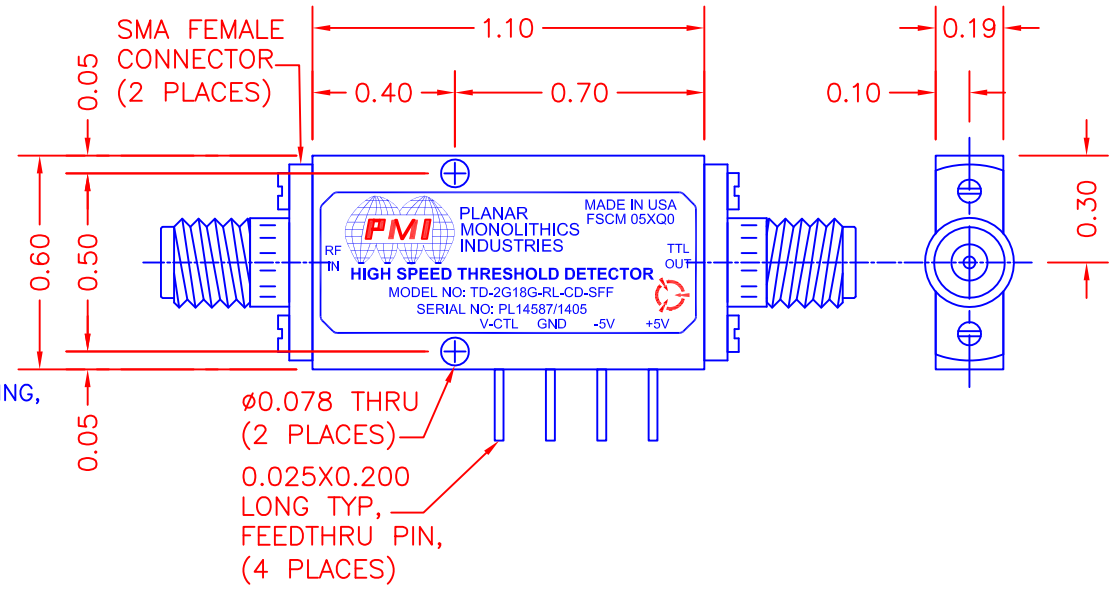
Description:

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	Original Release	11/25/13	

PMI Model Number: TD-2G18G-RL-CD-SFF is a High Speed Threshold Detector designed to operate over the 2 to 18GHz Frequency Range, with an Adjustable Threshold Level of -30 to -10dBm, VSWR of 3.0:1 Max. This Unit comes in a Very Small Size with Field Removable SMA Connector on the Input and Output. This unit has active low output.

SPECIFICATIONS

- FREQUENCY RANGE: ——— 2.0 GHz TO 18.0 GHz MINIMUM
- VSWR: ——— 3.0:1 TYPICAL
- DYNAMIC RANGE: ——— −30 dBm TO +10 dBm
- THRESHOLD VARIATION: ——— ±1.5 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 "0" INPUT POWER > THRESHOLD SETTING, TTL "1" OTHERWISE
- TEMPERATURE STABILITY: ——— 1.0 dB TYPICAL, 3 dB ABOVE THRESHOLD SETTING
- THRESHOLD SETTING CONTROL: ——— EXTERNAL VOLTAGE 0 TO +5V
- THRESHOLD LEVEL SETTING RANGE: ——— −30 TO −10 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: ——— 1.10" x 0.60" x 0.19"
- FINISH: ——— GOLD PLATED



Environmental Ratings:

- Temperature: ——— -25°C to + 85°C (Operating)
  -65°C to +125°C (Storage)
- Humidity: ——— MIL-STD-202F, METHOD 103B COND B.
- Shock: ——— MIL-STD-202F, METHOD 213B COND B.
- Altitude: ——— MIL-STD-202F, METHOD 105C COND B.
- Temperature Cycle: ——— MIL-STD-202F, METHOD 107D COND A

Note: The above specifications are subject to change or revision.

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PLANAR MONOLITHICS INDUSTRIES, INC.
4921 ROBERT J. MATHEWS PARKWAY, SUITE 1
EL DORADO HILLS, CA 95762
TEL: 916-542-1401 FAX: 916-265-2597
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN T. LUDDEN	10/25/13
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
TD−2G18G−RL−CD−SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27021911	1

SCALE N:S SHEET 1 OF 1