

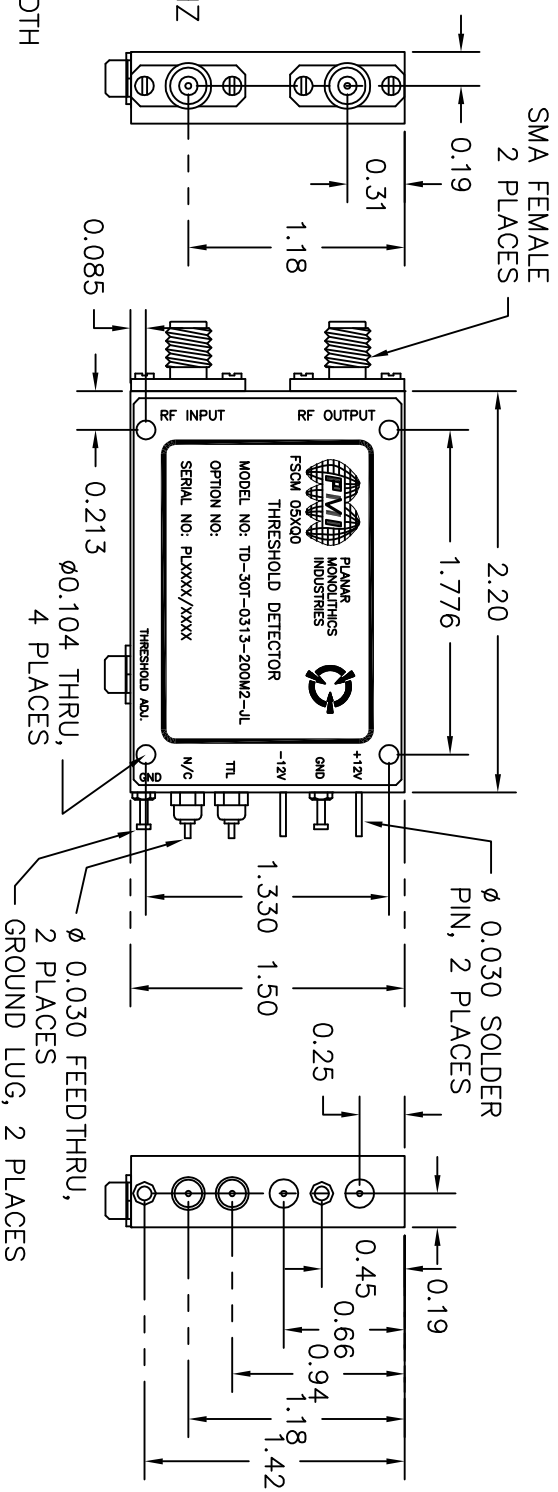
# DESCRIPTION

PMI MODEL TDC-30T-0313-200M2-JL IS A HIGH SPEED, TTL LOGIC OUTPUT THRESHOLD DETECTOR WITH AN INPUT COUPLER DESIGNED TO OPERATE FROM 0.2 TO 2 GHZ.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	3/10/10	

# SPECIFICATIONS

- FREQUENCY RANGE ..... 0.2 TO 2 GHZ
- INSERTION LOSS ..... 2.0 DB MAXIMUM
- VSWR ..... 2.0 : 1
- FREQUENCY FLATNESS ..... ±1.0 DB TYP., ±1.5 DB MAX
- THRESHOLD LEVEL ..... ADJUSTABLE
- THRESHOLD VARIATION ..... ±0.5 DB TYP OVER ANY 1 GHZ
- PROPAGATION DELAY ..... 12 NS MAX, 8 NS TYP
- OUTPUT PULSE WIDTH WHEN INPUT
  - 10 dBm TO 0 dBm ..... WITHIN 10 NS OF INPUT PULSE WIDTH
  - 0 dBm TO +10 dBm ..... WITHIN 10 NS OF INPUT PULSE WIDTH
  - 0 dBm TO +20 dBm ..... WITHIN 25 NS OF INPUT PULSE WIDTH
  - 10 dBm TO +20 dBm ..... WITHIN 25 NS OF INPUT PULSE WIDTH
- DC POWER SUPPLY
  - +V ..... +12 VOLTS @ 100 mA MAX
  - V ..... -12 VOLTS @ 100 mA MAX
- SIZE ..... 2.2" x 1.5" x 0.4"
- WEIGHT ..... < 3 OUNCES TYPICAL
- FINISH ..... GOLD PLATED



# ENVIRONMENTAL RATINGS

- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)  
-65°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 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

NOTES:  
1) DIMENSIONS ARE IN INCHES  
2) TOLERANCES: XXX ±0.020  
XXXX ±0.010

CONFIDENTIAL AND PROPRIETARY

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TITLE: PRODUCT FEATURE

TDC-30T-0313-200M2-JL

APPROVALS

DATE

DRAWN

9/10/10

REDRAWN

SIZE FSCM NO.

DWG NO.

27012121

REV.

ISSUED

SCALE N:S

A 05X00

1 OF 1

SHEET