

DESCRIPTION

PMI MODEL TDC-30T-0313 IS AN ULTRA HIGH SPEED, 0.3 TO 13.0 GHz THRESHOLD DETECTOR WITH AN INPUT COUPLER AND LATCHING CAPABILITY.

SPECIFICATIONS

- FREQUENCY RANGE: 0.3 TO 13 GHz
- INSERTION LOSS: 2.0 dB MAXIMUM
- VSWR: 2.0:1
- FREQUENCY FLATNESS: ± 1.0 dB TYP., ± 1.5 dB MAXIMUM
- MINIMUM SIGNAL LEVEL
FOR LOGIC 1: +10 dBm MINIMUM
FOR LOGIC 0: +7.5 dBm MAXIMUM
- THRESHOLD VARIATION: ± 0.5 dB TYP FOR ANY 1 GHz
- PROPAGATION DELAY: 12 nS MAX, 8 nS TYP.
- OUTPUT PULSE WIDTH WHEN INPUT:
-10dBm TO 0dBm: WITHIN 10nS OF INPUT PULSE WIDTH
0dBm TO +10dBm: WITHIN 10nS OF INPUT PULSE WIDTH
0dBm TO 20dBm: WITHIN 25nS OF INPUT PULSE WIDTH
-10dBm TO +20dBm: WITHIN 25nS OF INPUT PULSE WIDTH
- POWER
+V: +12VDC @ 100mA MAXIMUM
-V: -12VDC @ 100mA MAXIMUM
- SIZE: 2.2" (L) x 1.5" (W) x 0.4" (H)
- WEIGHT: <3 OUNCES TYPICAL

OPTIONS:

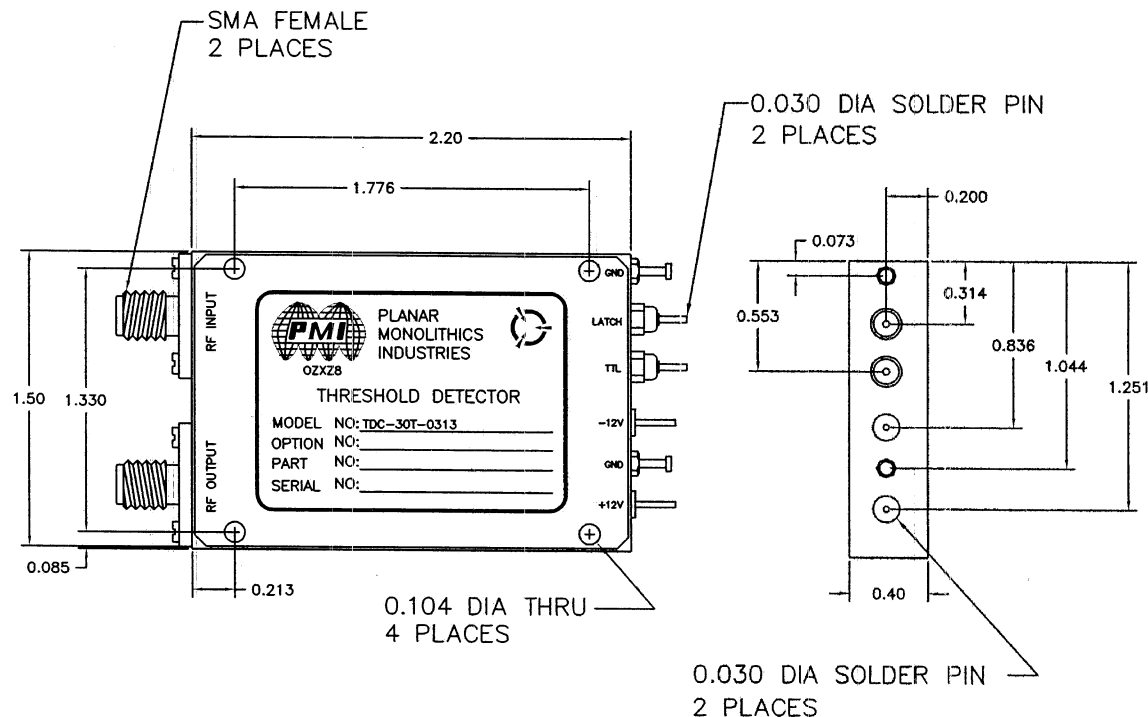
- 200M2: FREQUENCY RANGE 0.2 - 2 GHz
- JL: WITH 10dB COUPLER

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -54°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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# P501002N	1/25/05	↑



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2000 CERTIFIED



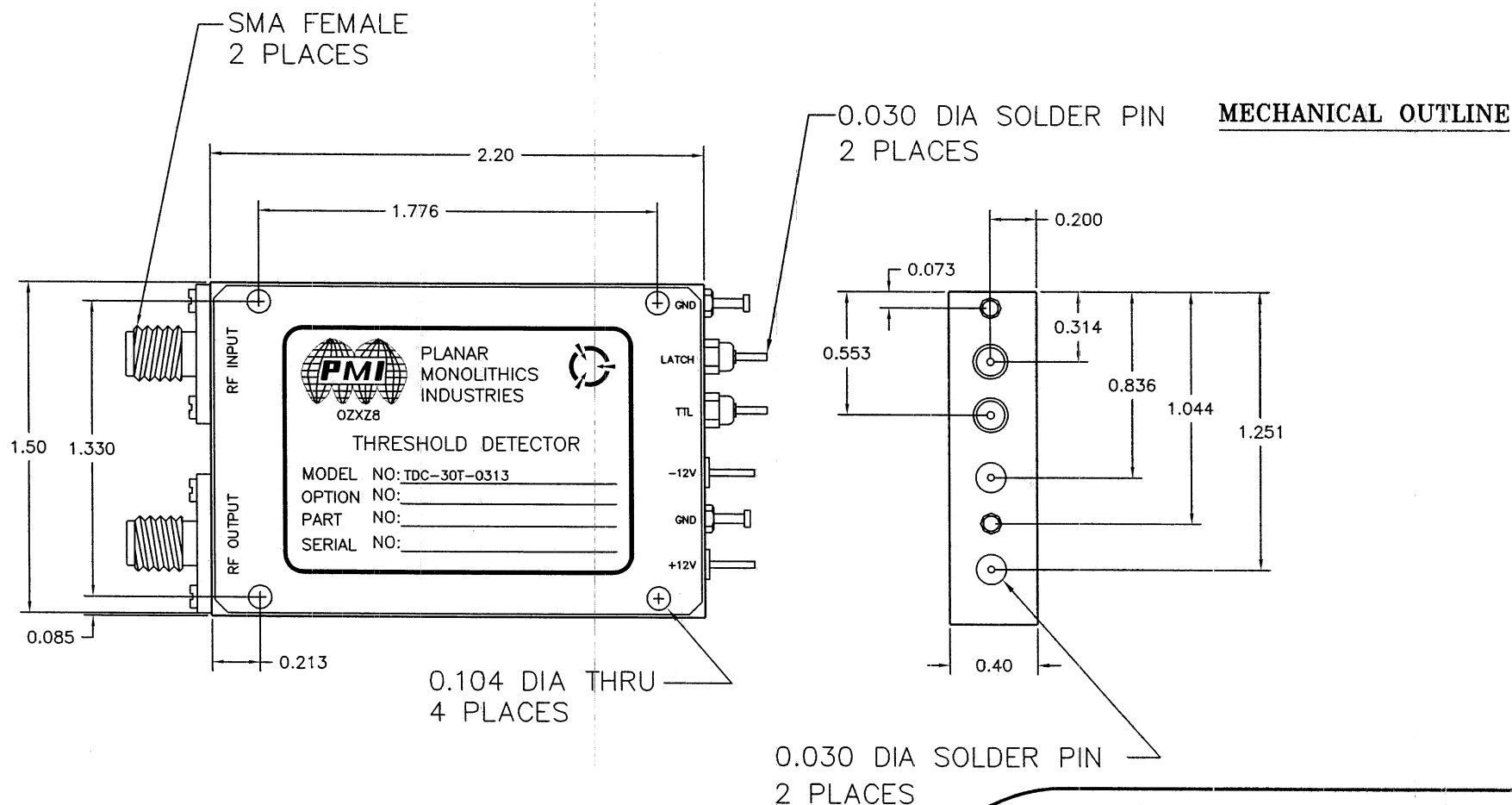
APPROVALS		DATE	TITLE	
DRAWN <i>JKM</i>		1/25/05	PRODUCT FEATURE TDC-30T-0313	
CHECKED <i>JA</i>		1/25/05	0.3 TO 13.0 GHz THRESHOLD DETECTOR	
ISSUED			SIZE A	FSCM NO. OZXZ8
			DWG NO. 100-7303	REV. -
SCALE N:S			SHEET 1 OF 3	

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

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X.XXX ±0.010

APPROVALS		DATE		TITLE	
DRAWN		1/25/05		MECHANICAL OUTLINE	
CHECKED		2/7/05		TDC-30T-0313	
ISSUED				0.3 TO 13.0 GHz THRESHOLD DETECTOR	
SIZE	FSCM NO.	OWG NO.	REV.		
A	OZXZ8	100-7303	-		
SCALE N:S		SHEET		2 OF 3	