

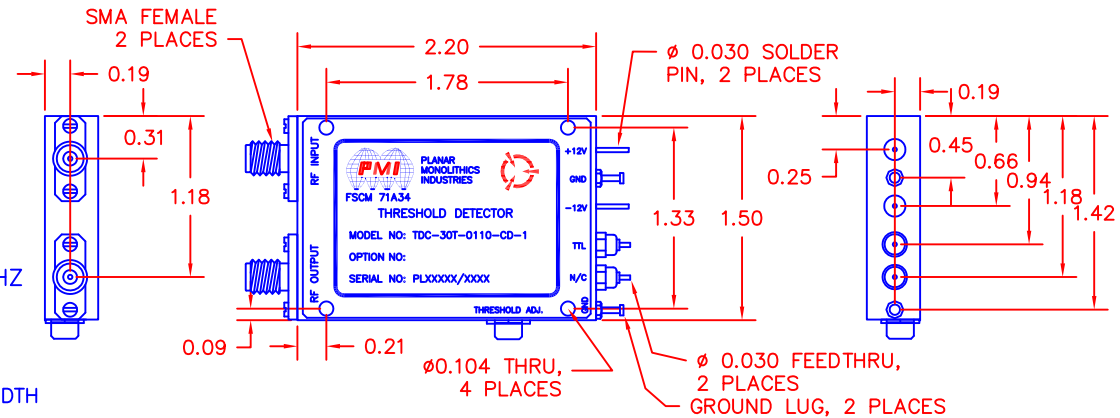
DESCRIPTION

PMI MODEL TDC-30T-0110-CD-1 IS A HIGH SPEED, TTL LOGIC OUTPUT THRESHOLD DETECTOR WITH AN INPUT COUPLER DESIGNED TO OPERATE FROM 0.1 TO 10 GHZ.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	9/19/14	
	A1	ECN # 14-0209	12/17/14	

SPECIFICATIONS

- FREQUENCY RANGE _____ 0.1 TO 10 GHZ
- INSERTION GAIN _____ 8 dB NOMINAL
- VSWR _____ 2.0 : 1
- FREQUENCY FLATNESS _____ ± 1.5 dB TYP., ± 2.0 dB MAX
- THRESHOLD LEVEL _____ ADJUSTABLE
- THRESHOLD VARIATION _____ ± 0.5 dB TYP OVER ANY 1 GHZ
- PROPAGATION DELAY _____ 20 ns MAX, 15 ns TYP
- OUTPUT PULSE WIDTH WHEN INPUT
 - 20 dBm TO -10 dBm _____ WITHIN 10 ns OF INPUT PULSE WIDTH
 - 10 dBm TO +0 dBm _____ WITHIN 10 ns OF INPUT PULSE WIDTH
 - 10 dBm TO +10 dBm _____ WITHIN 25 ns OF INPUT PULSE WIDTH
 - 20 dBm TO +10 dBm _____ WITHIN 25 ns OF INPUT PULSE WIDTH
- DC POWER SUPPLY
 - +V _____ +12 VOLTS @ 150 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

NOTES:
1) DIMENSIONS ARE IN INCHES
2) TOLERANCES: X.XX ± 0.020
X.XXX ± 0.010

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>JS</i>		9/19/14	PRODUCT FEATURE			
CHECKED			TDC-30T-0110-CD-1			
ISSUED			SIZE	FSCM NO.	OWG NO.	REV.
			A	71A34	27024261	A1
			SCALE	N:S	SHEET	1 OF 1