

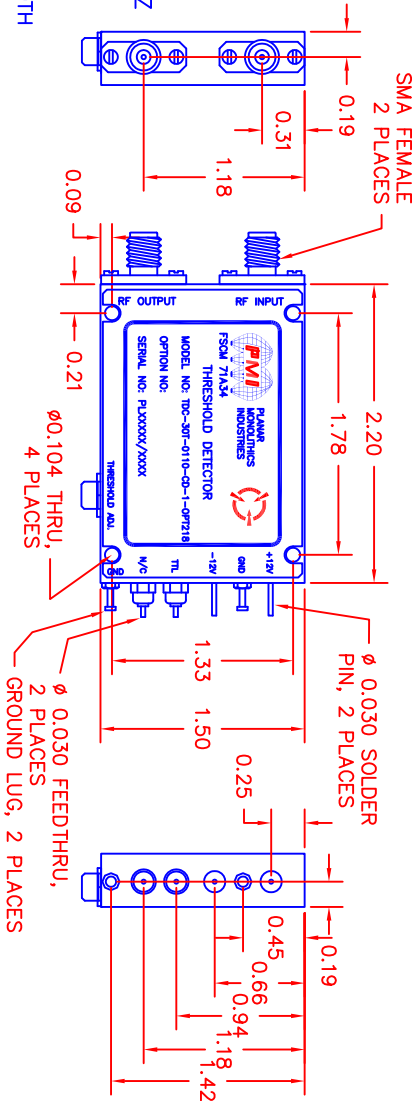
DESCRIPTION

PMI MODEL TDC-30T-0110-CD-1-OPT218 IS AN ULTRA HIGH SPEED, THRESHOLD DETECTOR WITH AN INPUT COUPLER DESIGNED TO OPERATE FROM 2.0 TO 18 GHZ.

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	ORIGINAL RELEASE	9/26/16

SPECIFICATIONS

- FREQUENCY RANGE 2.0 TO 18 GHZ
- INSERTION LOSS 3.0 dB MAX
- 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 VDC @ 100 mA MAX
 - V –12 VDC @ 100 mA MAX
- SIZE 2.2" x 1.5" x 0.4"
- WEIGHT < 3 OUNCES TYPICAL
- FINISH GOLD PLATED



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

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

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN	<i>J. Sherman</i>	9/26/16		PRODUCT FEATURE	
CHECKED				TDC-30T-0110-CD-1-OPT218	
ISSUED					
SCALE N:S		SIZE FSCM NO.		DWG NO.	
		A 71A34		27030461	
				SHEET 1 OF 1	