

DESCRIPTION

PMI MODEL NO.: TD-30T-SHS-218-30DBAMP IS AN ULTRA-HIGH SPEED, HIGH SENSITIVITY THRESHOLD DETECTOR DESIGNED FOR BROAD BAND APPLICATIONS IN THE 2 TO 18 GHz FREQUENCY RANGE. THIS IS A MINIATURE UNIT WITH TTL OUTPUT LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE:..... 2 TO 18 GHz
- MINIMUM SIGNAL LEVEL FOR THRESHOLD DETECTOR TO RESPONSE:..... -45 dBm $\pm$ 2.5 dBm
- PROPAGATION DELAY FROM 50% LOGIC OUTPUT ON LEADING EDGE FOR AN INPUT OF -45 dBm:..... 10 ns (TYP), 20 ns MAX
- PROPAGATION DELAY FROM 50% RF INPUT TO 50% LOGIC WHEN INPUT -20 dBm:..... 10 ns TYP, 20 ns MAX
- DC POWER +12V (NO LOAD):..... 250 mA MAX
- DC POWER -12V (NO LOAD):..... 120 mA MAX
- SIZE:..... 2.5"(L) X 2.0"(W) X 0.5"(H)

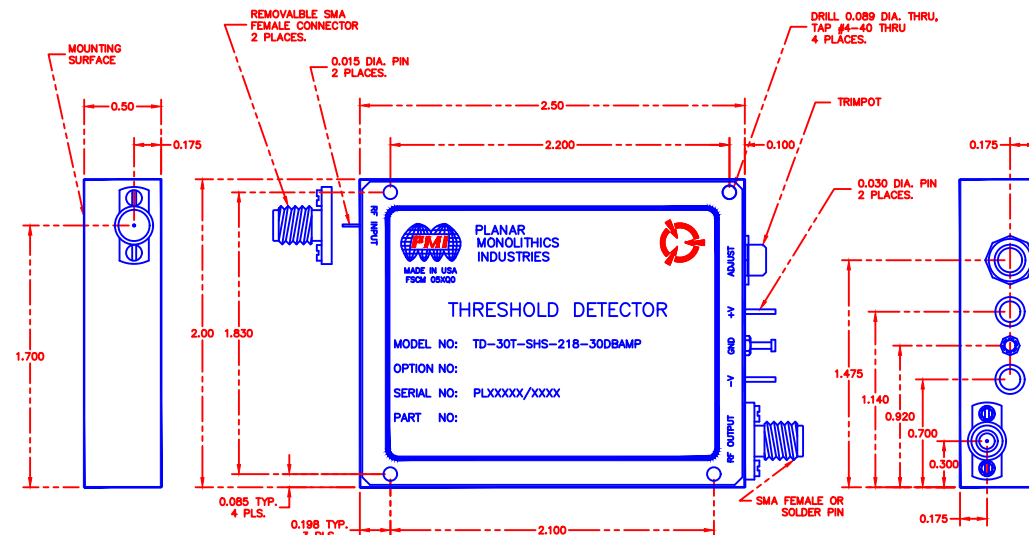
ENVIRONMENTAL RATINGS

- TEMPERATURE:..... -55°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
- 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

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX $\pm$ 0.020
X.XXX $\pm$ 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/29/09	
	A2	ECN # 13-0186	10/24/13	
	A3	ECN # 19-0110	4/29/19	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN <i>DPD</i>		1/29/09		PRODUCT FEATURE TD-30T-SHS-218-30DBAMP	
CHECKED				2 - 18 GHz THRESHOLD DETECTOR	
ISSUED					
SIZE A		FSCM NO. 05XQ0		DWG NO. 27010109	
SCALE N:S				REV. A3	
				SHEET 1 OF 1	