

DESCRIPTION

PMI MODEL TD-30T-SHS-218-8G12G-PECL IS A HIGH SPEED, LVPECL LOGIC OUTPUT THRESHOLD DETECTOR DESIGNED TO OPERATE FROM 8.0 GHz TO 12.0 GHz. THIS DETECTOR HAS A PROPAGATION DELAY OF 15 ns MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 2 GHz TO 18 GHz (OPTIMIZED FOR 8GHz TO 12GHz)
- VSWR: 3.0 : 1 MAXIMUM @ -20 dBm
- MINIMUM SIGNAL LEVEL FOR LOGIC 1: -20 dBm @ 2 GHz
-17 dBm @ 18 GHz
- THRESHOLD VARIATION OVER FREQUENCY (ANY 1 GHz WINDOW): ± 0.5 dB
- MINIMUM SIGNAL LEVEL FOR LOGIC 0: -25 dBm
- DYNAMIC RANGE: UP TO +10 dBm
- PROPAGATION DELAY (FROM 50% OF AN INPUT OF -20 dBm): 15 ns MAX
- OUTPUT LOGIC: LVPECL COMPATIBLE
- PROPAGATION DELAY (FROM 50% OF AN INPUT OF +10 dBm): 15 ns MAX
- DC POWER SUPPLY
 - +V: +15 VOLTS @ 100 mA MAX
 - V: -15 VOLTS @ 100 mA MAX
- SIZE: 2.2" x 1.50" x 0.40"
- WEIGHT: ≤ 3 OUNCES
- FINISH: GOLD PLATED

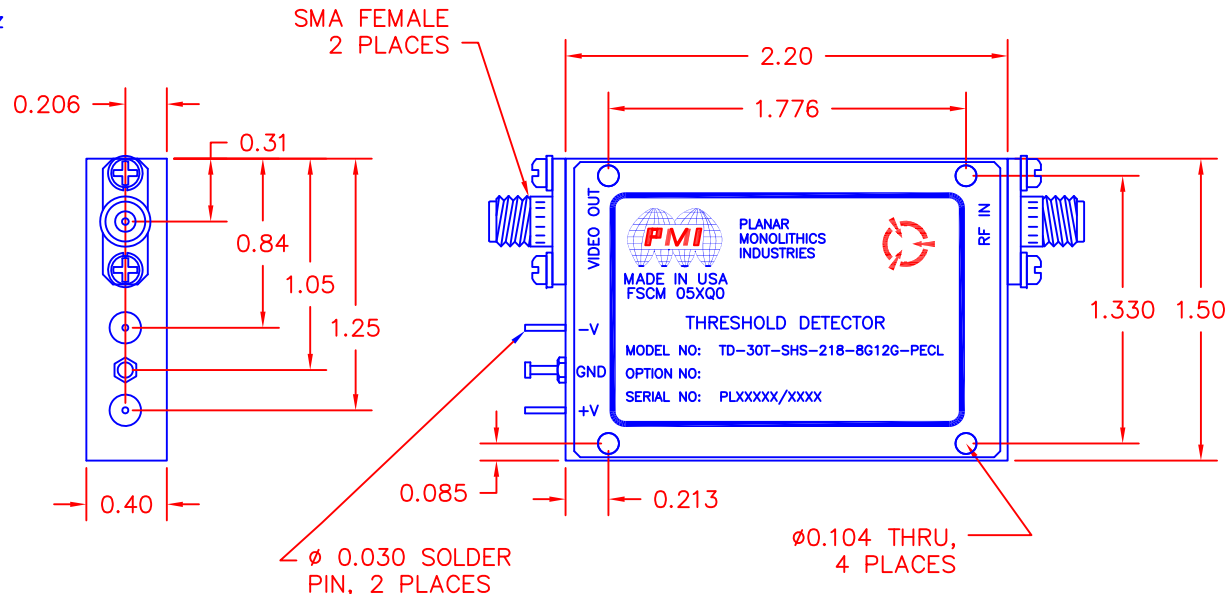
ENVIRONMENTAL RATINGS

- 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: X.XX ± 0.020
X.XXX ± 0.010
3) WEIGHT: 2.75 OZ

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	6/25/14	
	A1	ECN # 14-0160	6/25/14	



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE			
DRAWN		6/25/14		PRODUCT FEATURE			
REDRAWN				TD-30T-SHS-218-8G12G-PECL			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27022842	A1
				SCALE	N:S	SHEET	1 OF 1