

DESCRIPTION

PMI MODEL NO.: TD-30T-SHS-218-AMP-OPT4G4D5G-40DBM IS AN ULTRA-HIGH SPEED, HIGH SENSITIVITY THRESHOLD DETECTOR OPTIMIZED FOR THE 4 TO 4.5 GHz FREQUENCY RANGE WITH A FIXED THRESHOLD LEVEL OF -40 dBm. THIS IS A MINIATURE UNIT WITH TTL OUTPUT LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE:..... 4 TO 4.5 GHz
- FIXED THRESHOLD LEVEL:..... -40 dBm $\pm$ 2 dB
- OPERATING INPUT POWER LEVEL:..... -35 TO -15 dBm
- ABSOLUTE MAX INPUT POWER LEVEL:..... +10 dBm
- OUTPUT PULSE WIDTH COMPARED TO INPUT PULSE WIDTH (20 ns TO CW) OVER OPERATING INPUT POWER:..... $\pm$ 20 ns
- PROPAGATION DELAY FROM 50% RF INPUT TO 50% LOGIC WHEN INPUT -35, -25, -15 dBm: 10 ns TYP, 20 ns MAX
- DC POWER +12V (NO LOAD):..... 275 mA MAX
- DC POWER -12V (NO LOAD):..... 120 mA MAX
- SIZE:..... 2.5"(L) X 2.0"(W) X 0.5"(H)

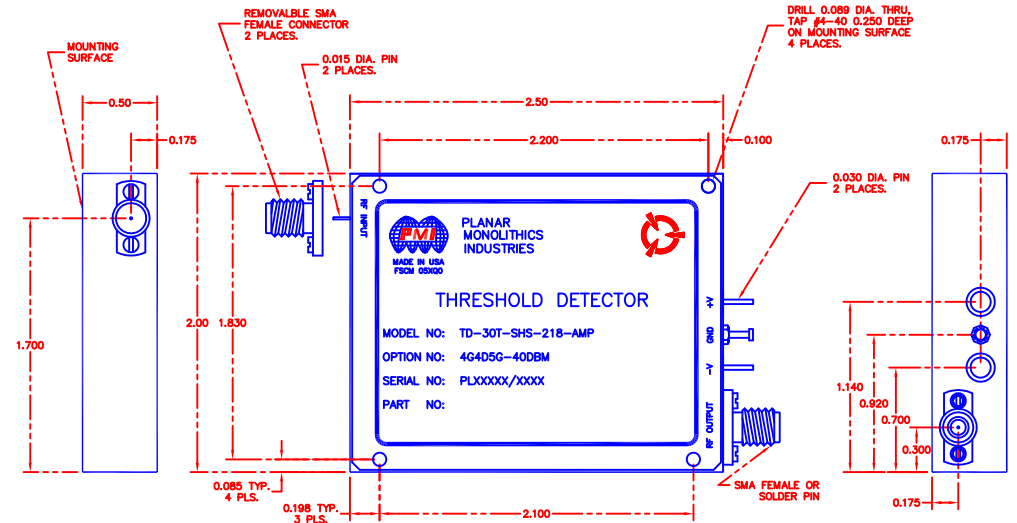
ENVIRONMENTAL RATINGS

- 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
	1	PRELIMINARY	11/11/16	
	2	UPDATED SPECS, MODEL NUMBER	11/15/16	
	3	UPDATED SPECS	12/7/16	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		11/11/16		PRODUCT FEATURE	
CHECKED				TD-30T-SHS-218-AMP-OPT4G4D5G-40DBM	
ISSUED				4 - 4.5 GHz THRESHOLD DETECTOR	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	