

DESCRIPTION

PMI MODEL NO.: TD-30E-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 ECL OUTPUT LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE: 2 TO 18 GHz
- MINIMUM SIGNAL LEVEL FOR THRESHOLD DETECTOR TO RESPOND -45 dBm $\pm$ 2.5 dBm
- PROPAGATION DELAY FROM 50% LOGIC OUTPUT ON LEADING EDGE FOR AN INPUT OF -45 dBm 10 nSEC (TYP), 20 nSEC (MAX)
- PROPAGATION DELAY FROM 50% RF INPUT TO 50% LOGIC WHEN INPUT -20 dBm 10 nSEC (TYP), 20 nSEC (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)

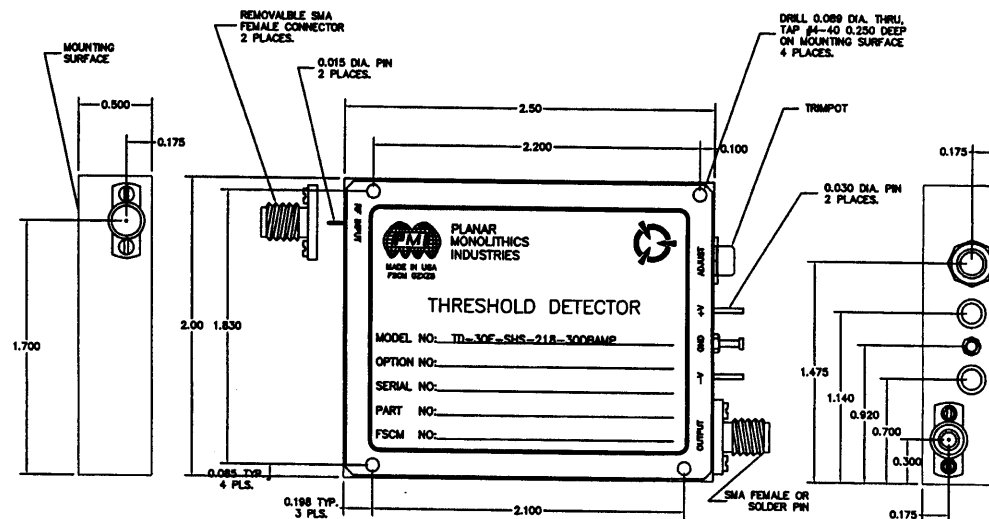
ENVIRONMENTAL RATINGS

- 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
	-	ORIGINAL RELEASE JOB# 70915P	9/10/04	DA



PLANAR MONOLITHICS INDUSTRIES, INC.

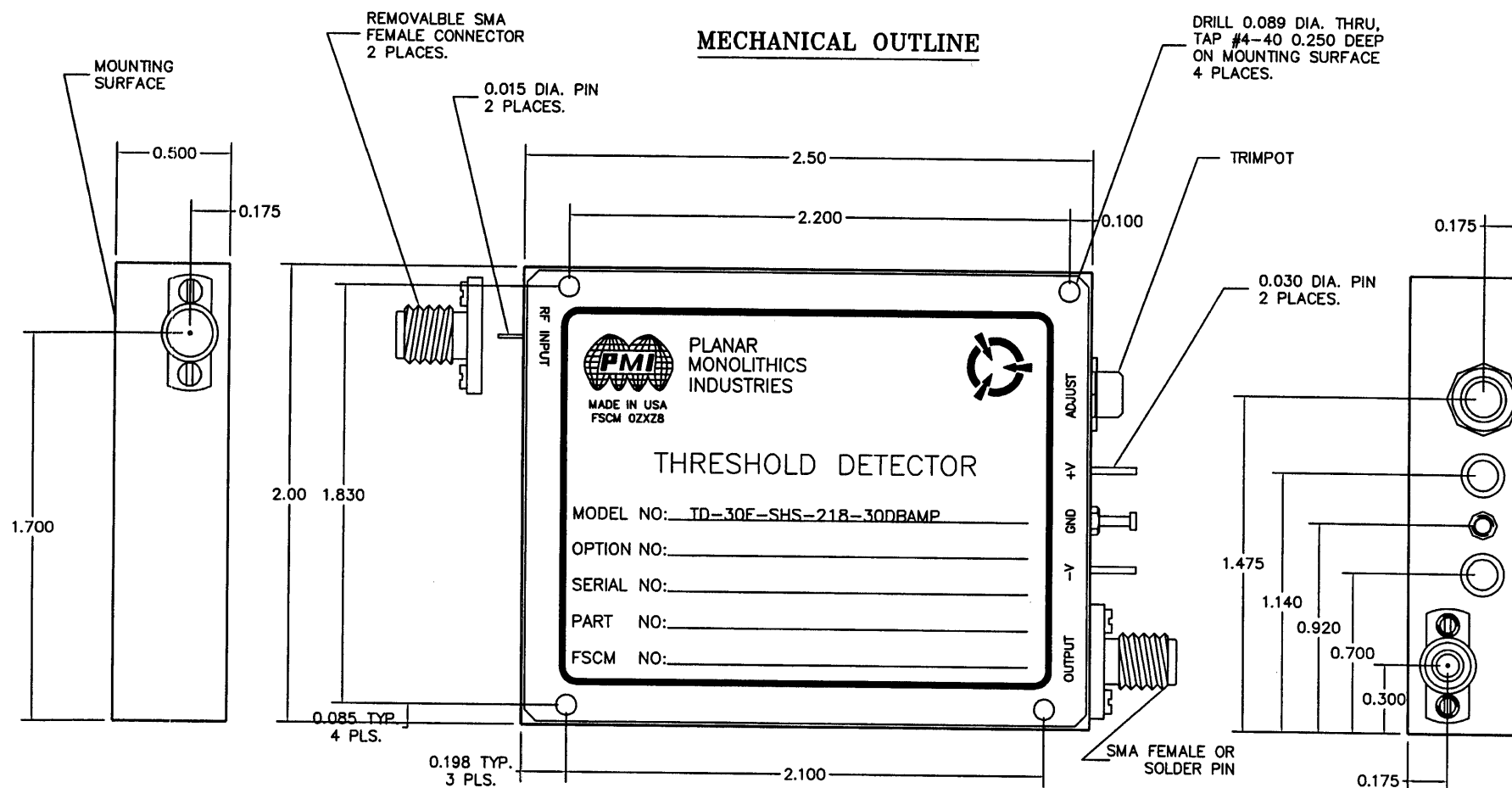
7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE		PRODUCT FEATURE		REV.	
DRAWN <i>878</i>		9/10/04		TD-30E-SHS-218-30DBAMP		2 - 18 GHz THRESHOLD DETECTOR		-	
CHECKED <i>ESC</i>		10-5-04		SIZE	FSCM NO.	DWG NO.			
ISSUED				A	OZYZ8	100-7116			
SCALE N:S				SHEET 1 OF 3					

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TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE	TITLE			
DRAWN	878	9/10/04	MECHANICAL OUTLINE			
CHECKED	ESC	10-5-04	TD-30E-SHS-218-30DBAMP			
ISSUED			2 - 18 GHz THRESHOLD DETECTOR			
		SIZE	FSCM NO.	DWG NO.	REV.	
		A	OZXXZ8	100-7116	-	
		SCALE	N:S	SHEET	2 OF 3	