

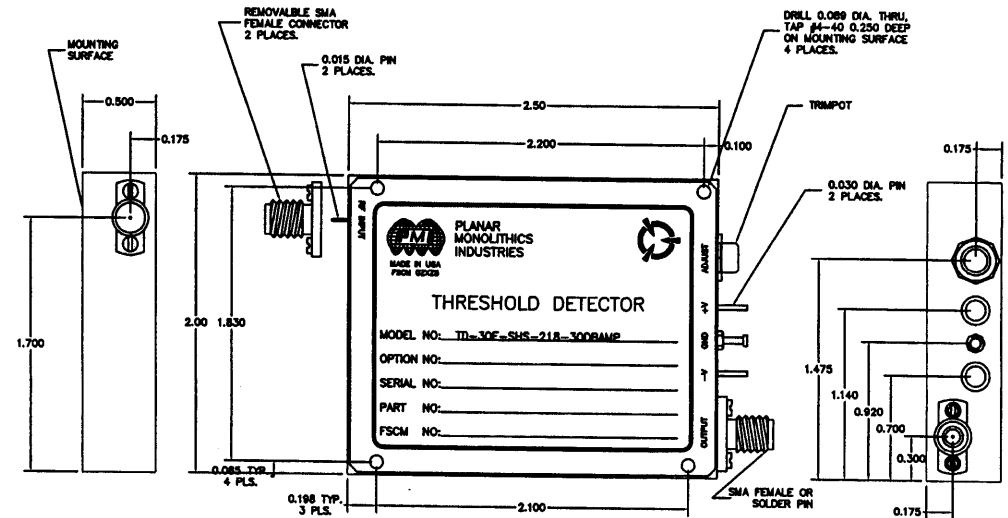
## DESCRIPTION

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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 70915P	9/10/04	<i>[Signature]</i>

## 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

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-631-1579 FAX: 301-662-2029  
WEBSITE: [www.planarmonolithicsindustries.com](http://www.planarmonolithicsindustries.com)  
E-MAIL: [sales@planarmonolithics.com](mailto:sales@planarmonolithics.com)  
ISO 9001:2000 CERTIFIED



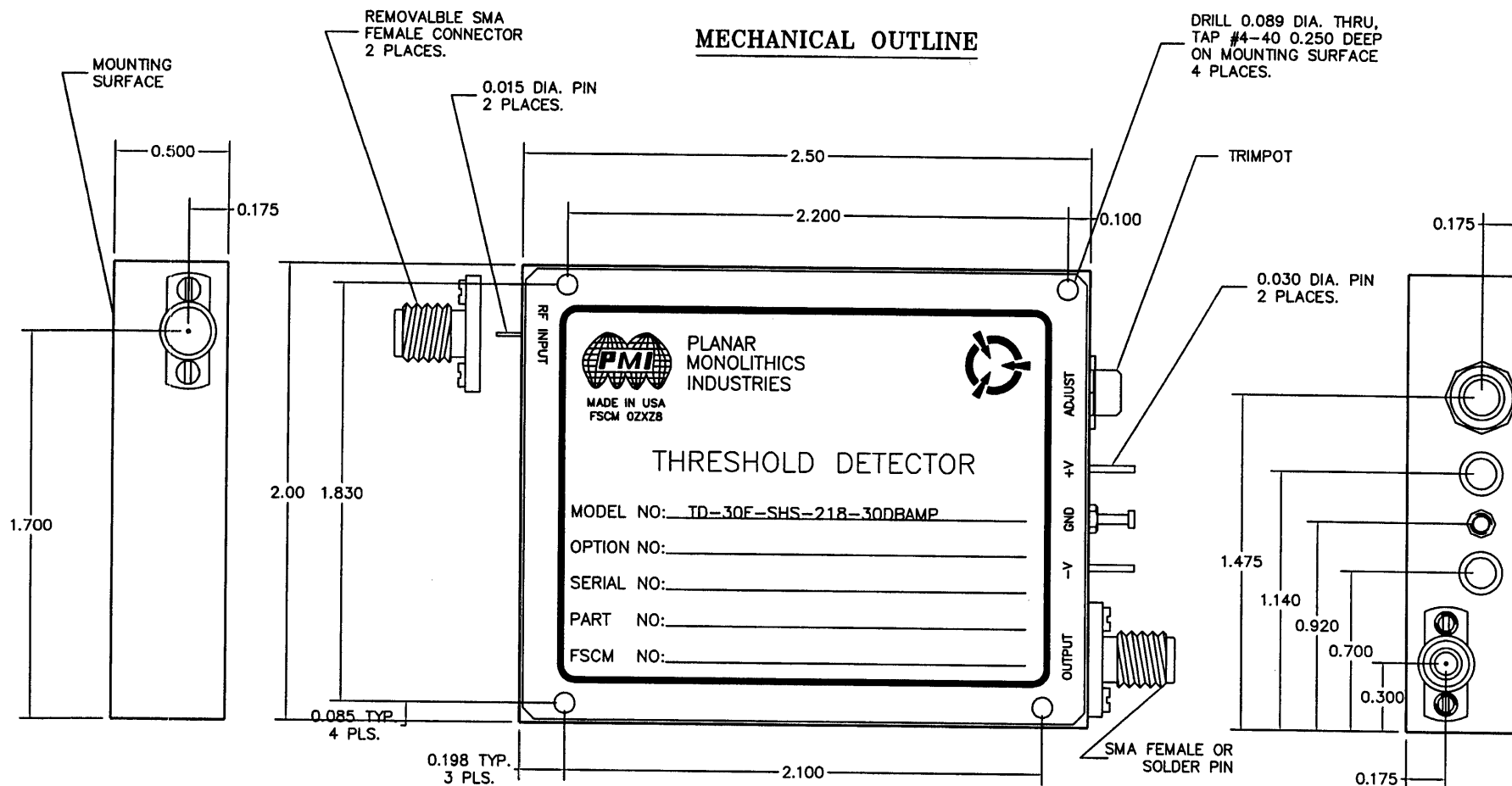
APPROVALS		DATE	TITLE			REV.
DRAWN <i>EJB</i>		9/10/04	PRODUCT FEATURE TD-30E-SHS-218-30DBAMP 2 - 18 GHz THRESHOLD DETECTOR			-
CHECKED <i>ESC</i>		10-5-04	SIZE	FSCM NO.	DWG NO.	
ISSUED			A	OZXZ8	100-7116	
			SCALE N:S			SHEET 1 OF 3

# 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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-		ORIGINAL RELEASE JOB# 70915P	9/10/04	<i>PA</i>

## MECHANICAL OUTLINE



### PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-631-1579 FAX: 301-662-2029  
 WEBSITE: [www.planarmonolithicsindustries.com](http://www.planarmonolithicsindustries.com)  
 E-MAIL: [sales@planarmonolithics.com](mailto:sales@planarmonolithics.com)  
 ISO 9001:2000 CERTIFIED



ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 X.XX ±0.020  
 X.XXX ±0.010

APPROVALS		DATE	TITLE			
<i>EJB</i>		9/10/04	MECHANICAL OUTLINE			
<i>ESC</i>		10-5-04	TD-30E-SHS-218-30DBAMP			
ISSUED			2 - 18 GHz THRESHOLD DETECTOR			
SIZE	FSCM NO.	DWG NO.	REV.			
A	OZXZ8	100-7116	-			
SCALE N:S		SHEET 2 OF 3				