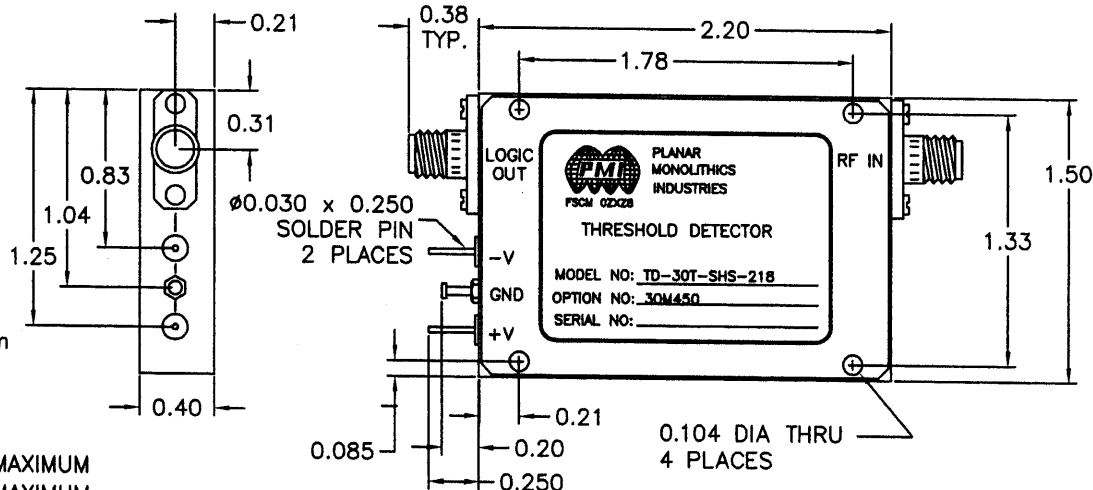


DESCRIPTION

PMI MODEL TD-30T-SHS-218 OPTION: 30M450 IS A THRESHOLD DETECTOR DESIGNED FOR OPERATION BETWEEN THE 30 TO 450 MHz FREQUENCY RANGE, HAVING A VSWR INPUT OF 3.0:1 @ -20 dBm AND A DYNAMIC RANGE OF -20 dBm TO +10 dBm. THE SIZE IS 2.20" x 1.50" x 0.40".

SPECIFICATIONS

- FREQUENCY RANGE: 30 MHz TO 450 MHz
- MINIMUM SIGNAL LEVEL FOR LOGIC 1: -20 dBm @ 30 MHz
-17 dBm @ 450MHz
- MINIMUM SIGNAL LEVEL FOR LOGIC 0: -25 dBm TYPICAL
- THRESHOLD VARIATION OVER
FREQUENCY FOR ANY 1 GHz WINDOW: ± 0.5 dB
- PROPAGATION DELAY FROM 50%
LOGIC OUTPUT ON LEADING EDGE
FOR AN INPUT OF -20 dBm: 75 nSec MAXIMUM
- DYNAMIC RANGE: -20 dBm TO +10 dBm
- VSWR INPUT: 3.0:1 @ -20 dBm
- RISE TIME: 50 nSec MAXIMUM
- FALL TIME: 50 nSec MAXIMUM
- POWER PLUS: +15 VDC @ 100 mA MAXIMUM
- POWER MINUS: -15 VDC @ 100 mA MAXIMUM
- SIZE: 2.20" x 1.50" x 0.40"
- WEIGHT: < 3 oz.



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 ± 0.020
X.XXX ± 0.010

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
		ORIGINAL RELEASE JOB# P402010	9/16/04

APPROVED
E3

PLANAR MONOLITHICS INDUSTRIES, INC.

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

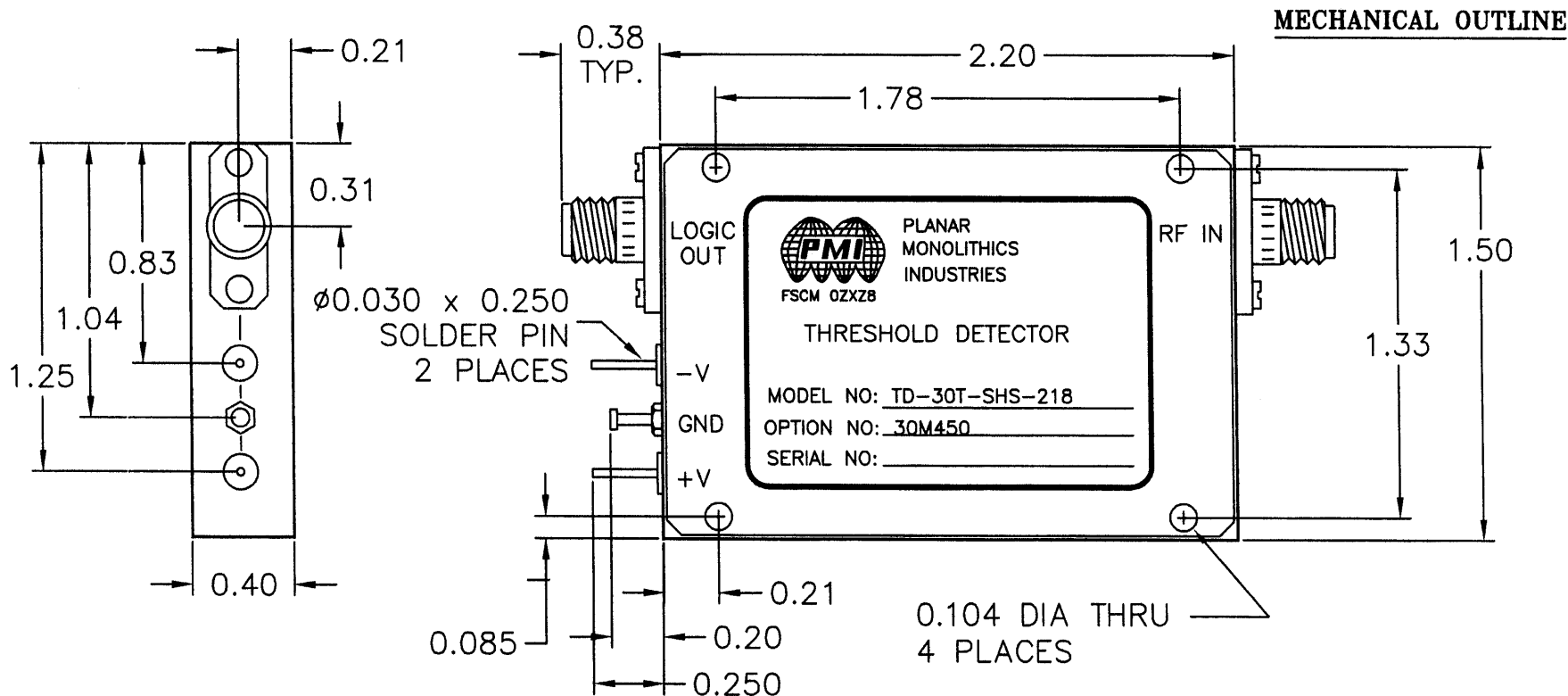


APPROVALS		DATE	TITLE		PRODUCT FEATURE	
DRAWN		9/16/04	TD-30T-SHS-218		OPTION: 30M450	
CHECKED		9/24/04	30 TO 450 MHz, THRESHOLD DETECTOR			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	OZXR8	100-7122	-
SCALE N:S			SHEET 1 OF 3			

DESCRIPTION

PMI MODEL TD-30T-SHS-218 OPTION: 30M450 IS A THRESHOLD DETECTOR DESIGNED FOR OPERATION BETWEEN THE 30 TO 450 MHz FREQUENCY RANGE, HAVING A VSWR INPUT OF 3.0:1 @ -20 dBm AND A DYNAMIC RANGE OF -20 dBm TO +10 dBm. THE SIZE IS 2.20" x 1.50" x 0.40".

REVISIONS			DATE	APPROVED
ZONE	REV.	DESCRIPTION		
	-	ORIGINAL RELEASE JOB# P402010	9/16/04	ESC



PLANAR MONOLITHICS INDUSTRIES, INC.

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



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

APPROVALS		DATE		TITLE	
DRAWN <i>JDJ</i>		9/16/04		MECHANICAL OUTLINE	
CHECKED <i>Wt</i>		9/24/04		TD-30T-SHS-218	
ISSUED				OPTION: 30M450	
				30 TO 450 MHz, THRESHOLD DETECTOR	
		SIZE	FSCM NO.	DWG NO.	REV.
		A	0ZXZ8	100-7122	-
		SCALE N:S			SHEET 2 OF 3