

DESCRIPTION:

PMI MODEL TD-30T-SHS-0506 IS A HIGH SPEED, TTL LOGIC OUTPUT THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 500 TO 600 MHz FREQUENCY RANGE. WITH A PROPAGATION DELAY OF 15 nS MAXIMUM AND THRESHOLD VARIATION OVER FREQUENCY OF ± 0.5 dB.

SPECIFICATIONS

- FREQUENCY RANGE: 500 MHz TO 600 MHz
(OTHER FREQUENCY RANGES AVAILABLE)
- VSWR: 3.0:1 MAXIMUM
- MINIMUM SIGNAL LEVEL
FOR LOGIC 1 : -20 dBm $\pm$ 2 dB
- MINIMUM SIGNAL LEVEL
FOR LOGIC 0 : -25 dBm TYPICAL
- THRESHOLD VARIATION: ± 0.5 dB
OVER FREQUENCY
- PROPAGATION DELAY: 15 nS MAXIMUM
(FROM 50% LOGIC OUTPUT ON LEADING
EDGE FOR INPUT OF -20 dBm)
- PROPAGATION DELAY: 15 nS MAXIMUM
(FROM 50% RF INPUT TO 50%
LOGIC WHEN INPUT IS -10 dBm)
- OUTPUT PULSE WIDTH: WITHIN 15 nS OF
(50% POINTS WHEN INPUT IS
BETWEEN -20 dBm TO -10 dBm)
- OUTPUT PULSE WIDTH: WITHIN 25 nS OF
(50% POINTS WHEN INPUT IS
BETWEEN -20 dBm TO +10 dBm)
- DC POWER SUPPLY
 - +V +15 VOLTS @ 100mA
 - V -15 VOLTS @ 100mA
- SIZE: 2.2" x 1.50" x 0.40"
- WEIGHT: ≤ 3 OUNCES

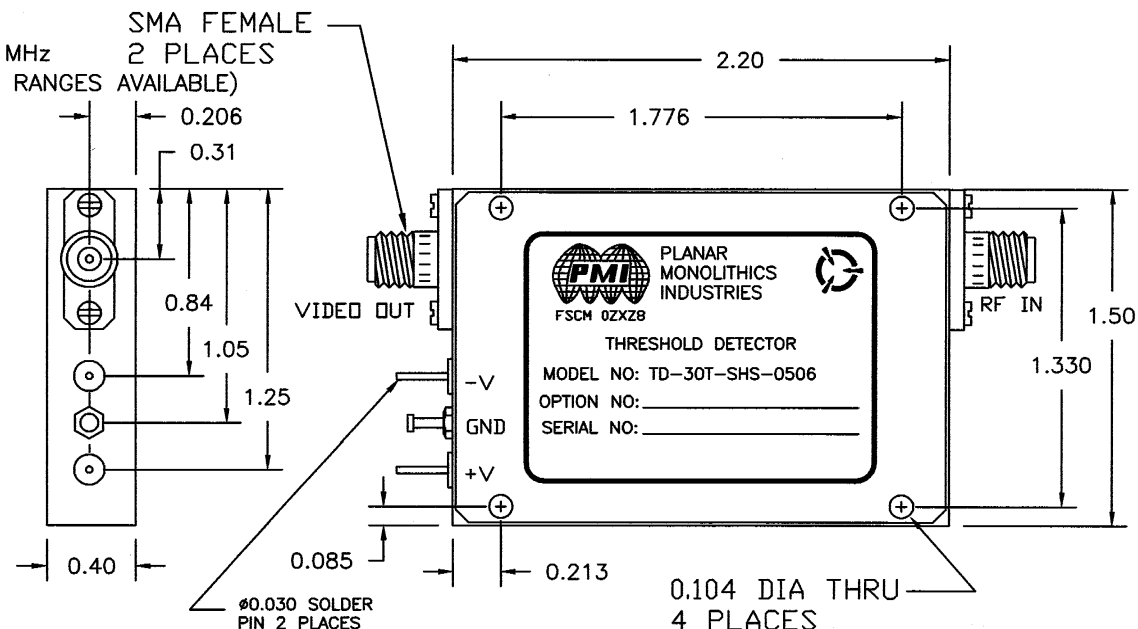
ENVIRONMENTAL RATINGS

- 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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL JOB # 90207PE	3/12/02	

MECHANICAL OUTLINE



CONFIDENTIAL AND PROPRIETARY

PART NO.		PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND	
APPROVALS		TITLE	
DATE		PRODUCT FEATURE	
DRAWN		TD-30T-SHS-0506	
CHECKED			
ISSUED			
SIZE		FSCM NO.	DWG NO.
A		0ZXZ8	100-6294
SCALE		N:S	SHEET 1 of 2