

DESCRIPTION:

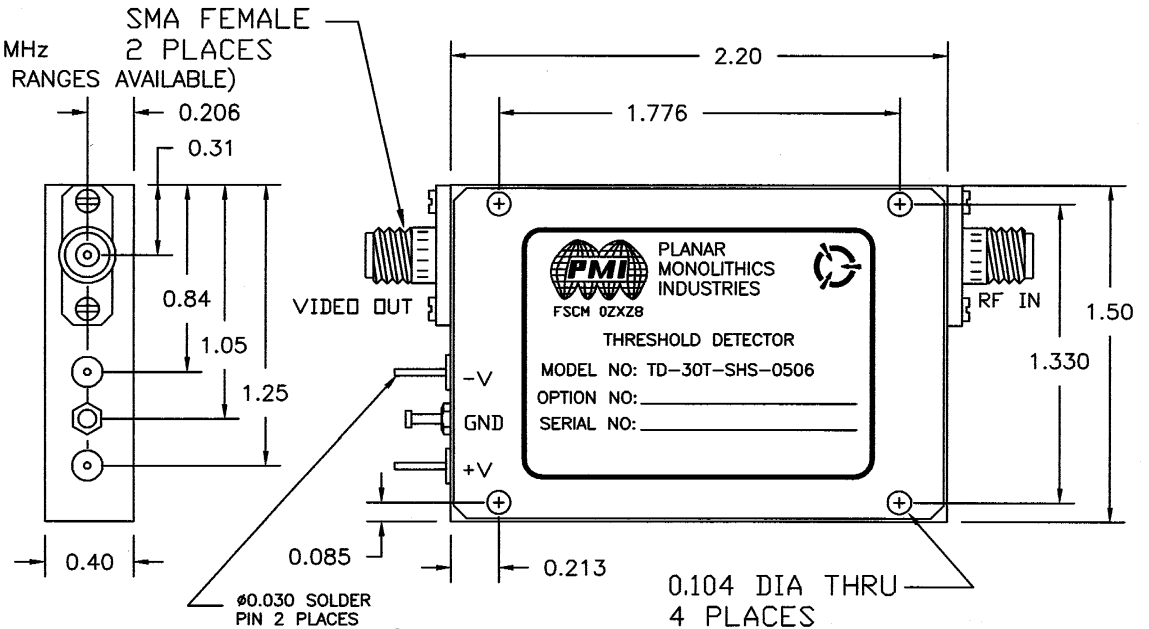
PMI MODEL TD-30T-SHS-0506 IS A HIGH SPEED, TTL LOGIC OUTPUT THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 500 TO 600 MHz FREQUENCY RANGE. WITH A PROPAGATION DELAY OF 15 nS MAXIMUM AND THRESHOLD VARIATION OVER FREQUENCY OF ±0.5 dB.

| REVISIONS | | | | |
|-----------|------|------------------------|---------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| - | - | ORIGINAL JOB # 90207PE | 9/12/02 | |

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 ± 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 INPUT PULSE WIDTH
BETWEEN -20 dBm TO -10 dBm)
- OUTPUT PULSE WIDTH: WITHIN 25 nS OF
(50% POINTS WHEN INPUT IS INPUT PULSE WIDTH
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

MECHANICAL OUTLINE



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

CONFIDENTIAL AND PROPRIETARY

| | | | |
|---------------------|---------|------------------------------------------------------|---------------------|
| PART NO. | | PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND | |
| APPROVALS | DATE | TITLE | |
| DRAWN <i>WSP</i> | 9/12/02 | PRODUCT FEATURE TD-30T-SHS-0506 | |
| CHECKED | | SIZE | REV. |
| ISSUED | | A | - |
| | | FSCM NO. 0ZXZ8 | DWG NO. 100-6294 |
| | | SCALE N:S | SHEET 1 of 2 |