

DESCRIPTION:

PMI MODEL NUMBER TD-30T-914-DX IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 9 TO 14 GHz FREQUENCY RANGE, WITH AN ADJUSTABLE THRESHOLD LEVEL OF -18 TO +5 dBm, AND TYPICAL VSWR OF 2.0:1 (2.5:1 MAXIMUM). THIS UNIT COMES IN A VERY SMALL SIZE WITH FIELD REMOVABLE GPO CONNECTOR ON THE INPUT AND SOLDER PIN ON THE OUTPUT.

SPECIFICATIONS:

- FREQUENCY: 9 TO 14 GHz
(ALSO AVAILABLE IN 100 MHz TO 18 GHz)
- VSWR: 2.5:1 MAXIMUM (2.0:1 TYPICAL)
- DYNAMIC RANGE: -18 dBm TO +5 dBm MINIMUM,
- INPUT FLATNESS: ±2.0 dB MAXIMUM, (±1.0 dB TYPICAL)
- RESPONSE TIME: 250 nSec MAXIMUM
(ALSO AVAILABLE IN HIGHER SPEEDS)
- OUTPUT TTL
- POWER SUPPLY: +5 V @ 100 mA MAXIMUM
- RF INPUT CONNECTOR: REMOVABLE GPO
- OUTPUT CONNECTOR: SOLDER PIN
- SIZE: 0.900" x 0.775" x 0.400"
- WEIGHT: 0.50 OUNCE

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	APPROVED
	-	ORIGINAL RELEASE	8/16/04	

Technical drawing of the TD-30T-914-DX threshold detector. The drawing includes three views: a top view, a side view, and a front view. The top view shows the overall dimensions of the device, including the input connector (Removable GPO Gilbert Part 0119-948-3) and the output connector (Solder Pin). The side view shows the height of the device and the location of the input and output connectors. The front view shows the device's face, including the input and output connectors, the threshold adjuster, and the output pin. Dimensions are provided in inches, with tolerances indicated. Key dimensions include: overall length 1.000", overall width 0.400", overall height 0.650", input connector length 0.180", output pin length 0.240", and various mounting hole diameters and positions.

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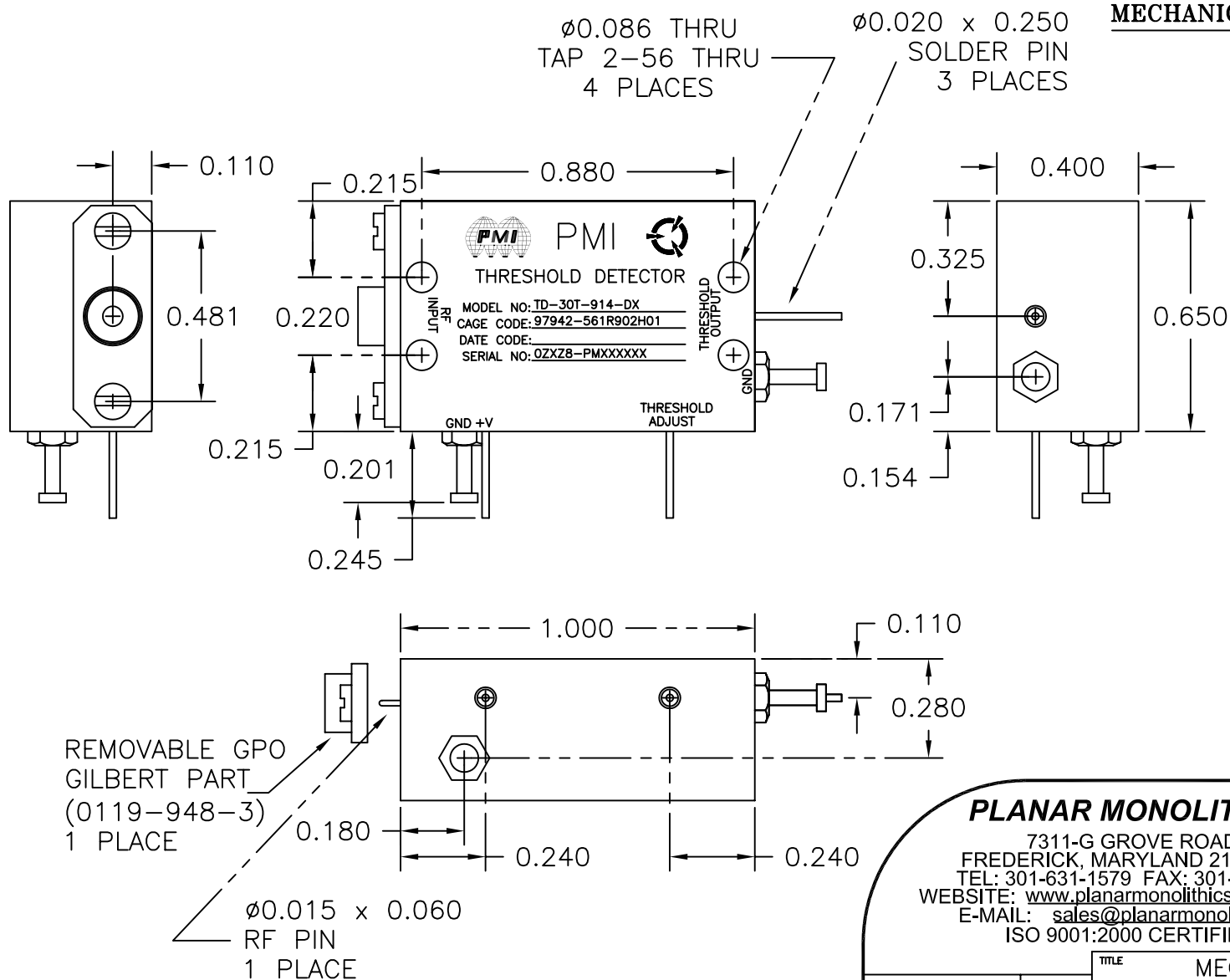
APPROVALS		DATE	TITLE			
DRAWN <i>JDJ</i>		8/16/04	PRODUCT FEATURE TD-30T-914-DX 9 TO 14 GHz THRESHOLD DETECTOR			
CHECKED			SIZE A	FSCM NO. 0ZXZ8	DWG NO. 100-7075-2	REV. -
ISSUED			SCALE N:S			SHEET 1 OF 3

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MECHANICAL OUTLINE



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X.XXX ±0.010

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DRAWN <i>JDJ</i>		8/16/04		MECHANICAL OUTLINE TD-30T-914-DX 9 TO 14 GHz THRESHOLD DETECTOR	
CHECKED				SIZE A	REV. -
ISSUED				FSCM NO. 0ZXZ8	DWG NO. 100-7075-2
				SCALE N:S	SHEET 2 OF 3