DESCRIPTION

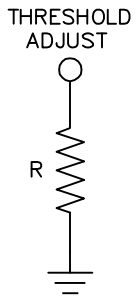
PMI MODEL TD−30T−218−FC−HS OPT052 IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 0.5 TO 2.0 GHz FREQUENCY RANGE. IT HAS AN EXTERNAL ADJUSTMENT TO VARY THE THRESHOLD LEVEL FROM −10 dBm TO −20 dBm, WITH AN INPUT FLATNESS OF TYPICALLY ±1.0 dB AND VSWR OF LESS THAN 3.0:1. THIS UNIT COMES IN A VERY SMALL SIZE WITH FIELD REMOVABLE SMA CONNECTORS FOR SURFACE MOUNTING OR TYPICAL COAXIAL CONNECTION.

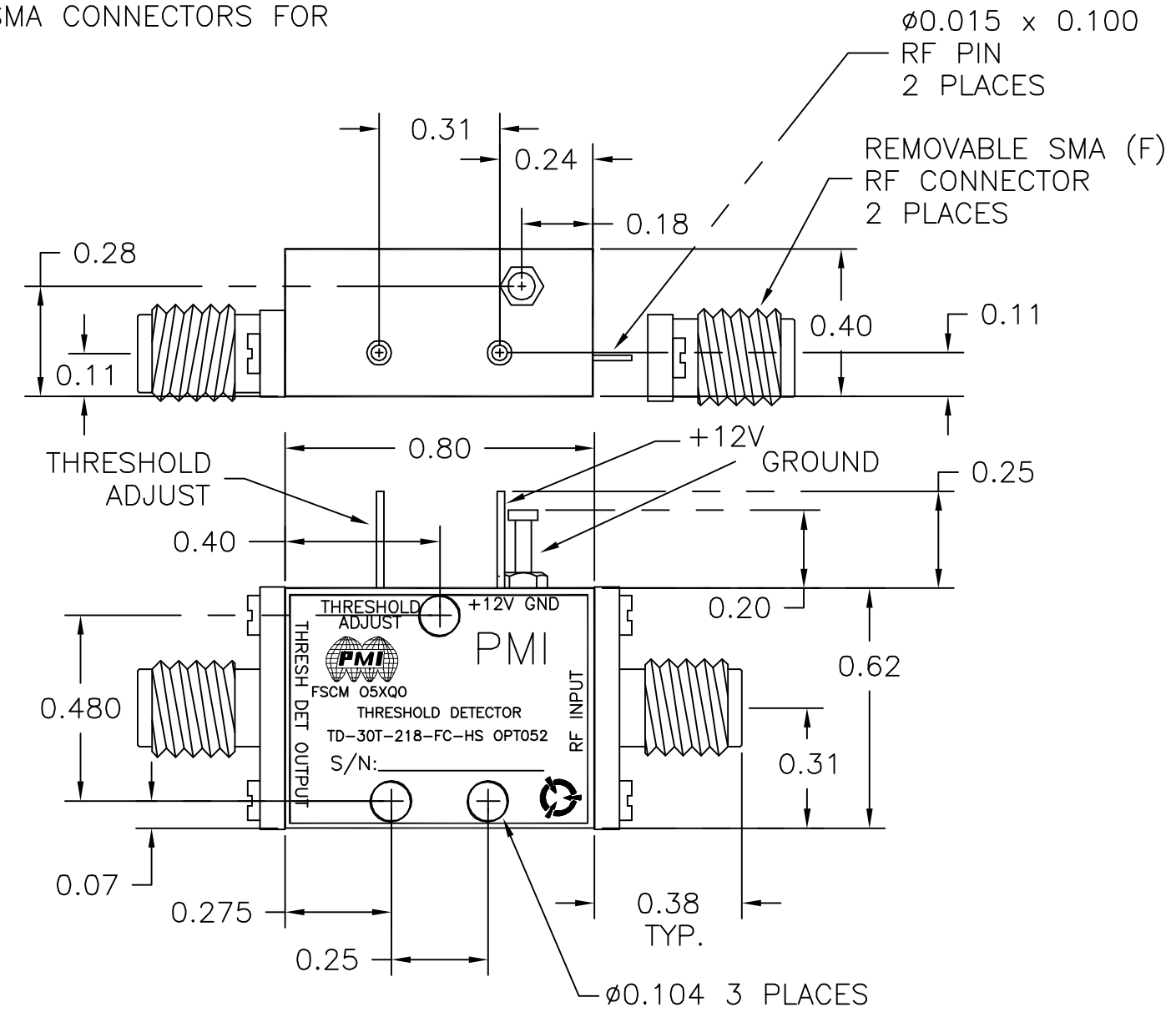
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	7/14/09	

SPECIFICATIONS

- FREQUENCY RANGE: ..... 0.5 GHz TO 2.0 GHz MINIMUM
- VSWR: ..... 3.0:1 MAXIMUM
- DYNAMIC RANGE: ..... −20 dBm TO −10 dBm MINIMUM, (−20 dBm TO +5 dBm TYPICAL)
- INPUT FLATNESS: ..... ±2.0 dB MAXIMUM, (±1.0 dB TYPICAL)
- RESPONSE TIME: ..... 100 nSEC MAXIMUM, (50 nSEC TYPICAL)
- OUTPUT ..... TTL
- POWER SUPPLY: ..... +12V @ 100 mA MAXIMUM
- CONNECTORS:
  - RF: ..... REMOVABLE SMA (FEMALE)
  - OUTPUT: ..... REMOVABLE SMA (FEMALE)
  - THRESHOLD ADJUST: ..... SOLDER PIN
- SIZE: ..... 0.80" x 0.62" x 0.40"
- WEIGHT: ..... 0.50 OUNCE
- FINISH: ..... PAINTED GRAY

NOTE: THE THRESHOLD ADJUST PIN REQUIRES AN EXTERNAL RESISTOR TO GROUND. RESISTOR VALUES FOR −20 dBm AND −10 dBm WILL BE SUPPLIED WITH THE FINAL DATASHEET.





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

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ISO 9001:2000 CERTIFIED

APPROVALS	DATE
DRAWN KM	7/14/09
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
TD−30T−218−FC−HS OPT052
0.5 − 2.0 GHz THRESHOLD DETECTOR

SIZE	FSCM NO.	DWG NO.	REV.
A	0ZXZ8	27011201	A

SCALE N:S SHEET 1 OF 1