

DESCRIPTION

PMI MODEL TD-30T-218-FC-HS OPTION 220 IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 2 TO 20 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.

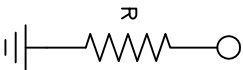
SPECIFICATIONS

- FREQUENCY RANGE:..... 2.0 GHz TO 20 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 ns MAXIMUM, (50 ns 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.

THRESHOLD
ADJUST

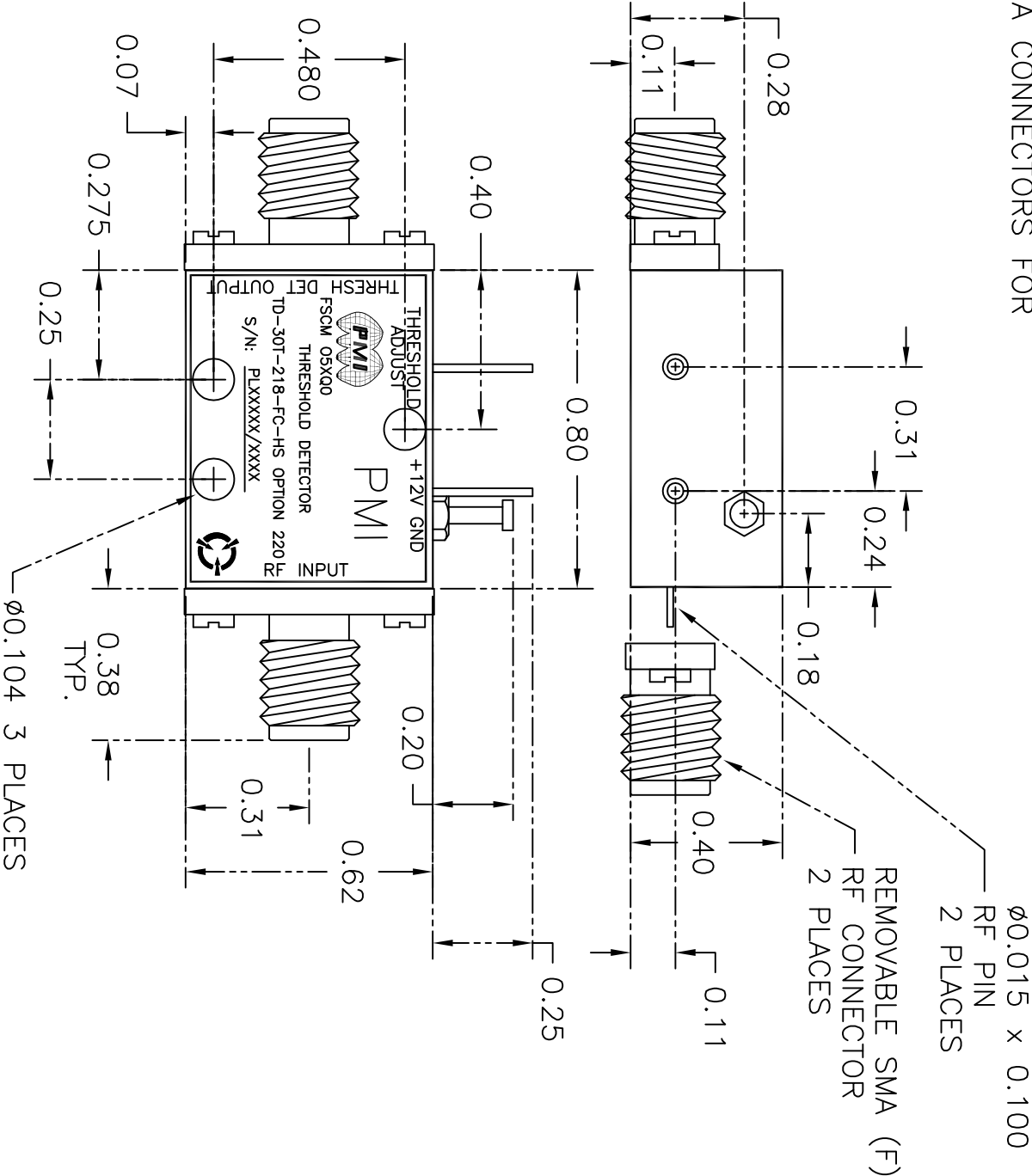


ENVIRONMENTAL RATINGS:

- 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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A	ORIGINAL RELEASE	02/07/12



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

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: 301-631-1579 FAX: 301-662-2029

WEBSITE: www.pmi-rf.com

E-MAIL: sales@pmi-rf.com

ISO 9001:2000 CERTIFIED



TITLE

PRODUCT FEATURE

TD-30T-218-FC-HS OPTION 220

2 - 20 GHz THRESHOLD DETECTOR

APPROVALS

DATE

02/07/12

CHECKED

ISSUED

A

SIZE

FSCM NO.

DWG NO.

A

05X00

27008921

REV.

A