

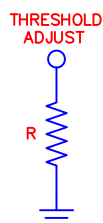
DESCRIPTION

PMI MODEL TD-30T-218-FC-HS IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 2 TO 18 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 18 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: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750,
TYPE I OVER EPOXY POLIMIDE PRIMER
IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

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.



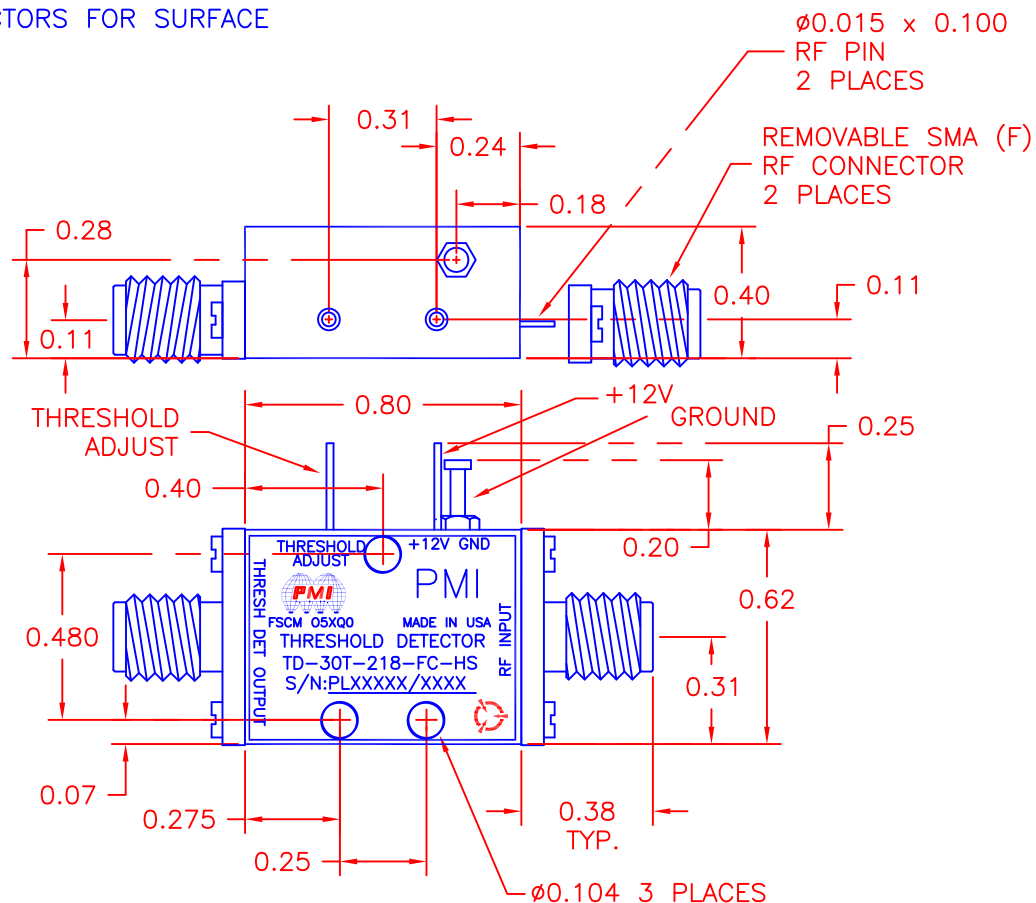
ENVIRONMENTAL RATINGS:

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/29/08	
	A2	ECN # 13-0214	11/27/18	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-631-1579 FAX: 301-662-2029
WEBSITE: www.planarmonolithicsindustries.com
E-MAIL: sales@planarmonolithics.com
ISO 9001 CERTIFIED



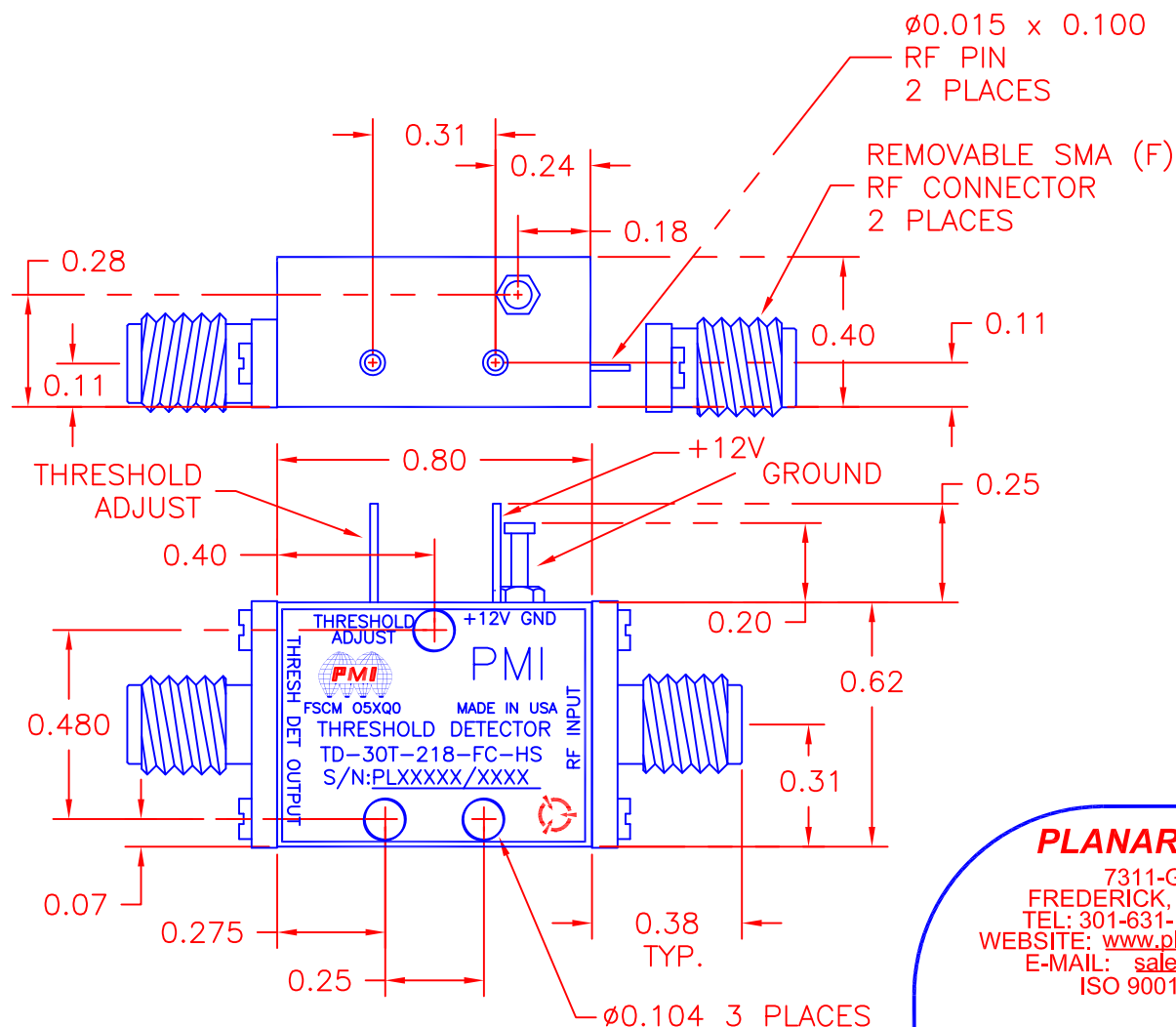
APPROVALS		DATE		TITLE	
DRAWN <i>JKM</i>		4/29/05		PRODUCT FEATURE	
CHECKED				TD-30T-218-FC-HS	
ISSUED				2 - 18 GHz THRESHOLD DETECTOR	
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27008690	A2		
SCALE N:S		SHEET 1 OF 3			

DESCRIPTION

PMI MODEL TD-30T-218-FC-HS IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 2 TO 18 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
	A1	ORIGINAL RELEASE	7/29/08
	A2	ECN # 13-0214	11/27/13

MECHANICAL OUTLINE



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

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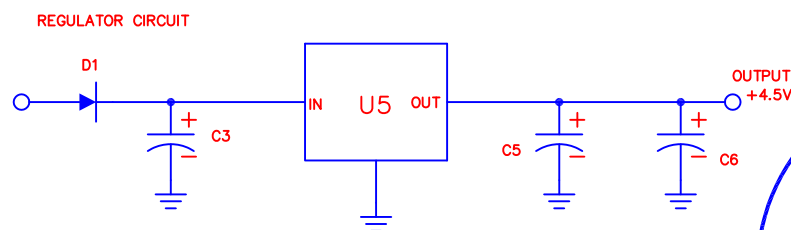
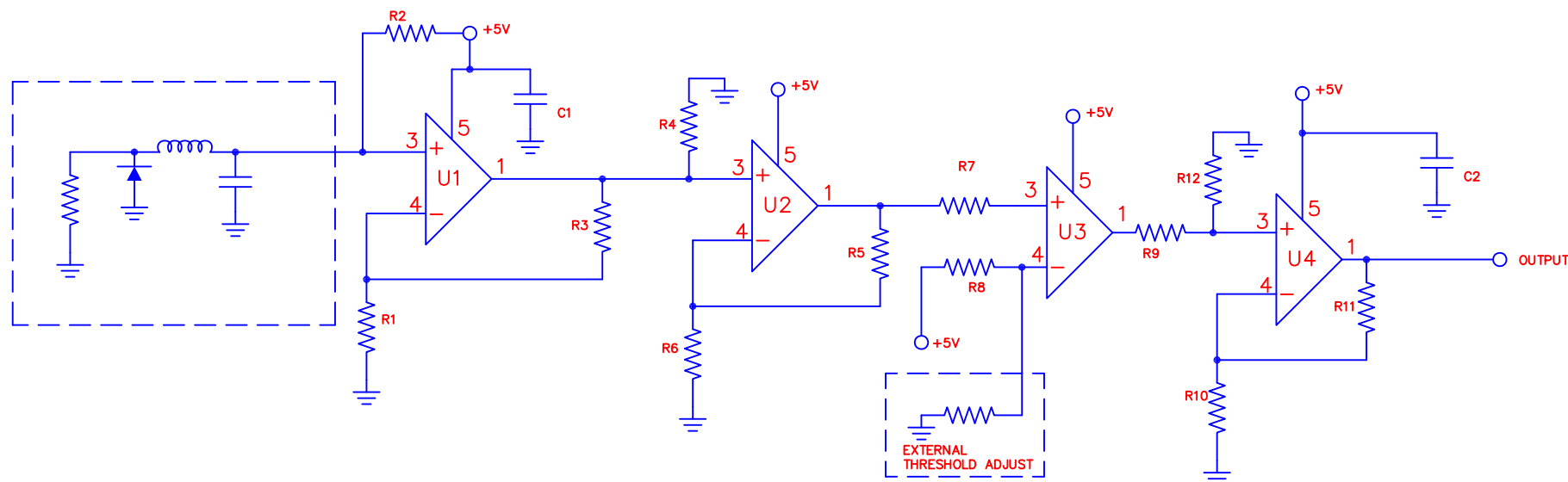
APPROVALS		DATE		TITLE			
DRAWN		4/29/05		MECHANICAL OUTLINE			
CHECKED				TD-30T-218-FC-HS			
ISSUED				2 - 18 GHz THRESHOLD DETECTOR			
SIZE	FSCM NO.	DWG NO.	REV.				
A	05XQ0	27008690	A2				
SCALE N:S				SHEET		2 OF 3	

DESCRIPTION

PMI MODEL TD-30T-218-FC-HS IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 2 TO 18 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
	-	ORIGINAL RELEASE JOB# 504104-1 RAYTHEON, AZ	6/9/99	
	A1	SEE ECN# P05-003	4/29/05	
	A2	ECN # 13-0214	11/27/13	

FUNCTIONAL BLOCK DIAGRAM



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APPROVALS		DATE		TITLE	
DRAWN		4/29/05		FUNCTIONAL BLOCK DIAGRAM	
CHECKED				TD-30T-218-FC-HS	
ISSUED				2 - 18 GHz THRESHOLD DETECTOR	
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27008690	A2		
SCALE N:S		SHEET 3 OF 3			