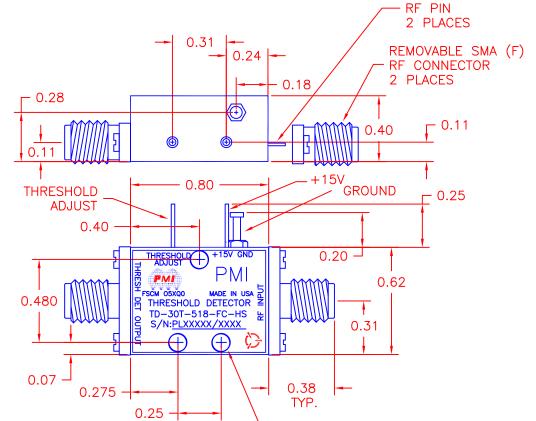
DESCRIPTION

PMI MODEL TD-30T-518-FC-HS IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 5 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			
	1	ORIGINAL RELEASE	5/4/17				

 $\emptyset 0.015 \times 0.100$



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PLANAR MONOLITHICS INDUSTRIES, INC.

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4921 ROBERT J. MATHEWS PARKWAY, SUITE 1 EL DORADO HILLS, CA 95762 USA TEL: 916-542-1401 FAX: 916-265-2597 WEBSITE: www.pmi-rf.com

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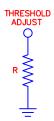
ISO 9001 CERTIFIED							′			
			PRODUCT FEATURE							
APPROVALS DATE			TD-30T-518-FC-HS							
$v_{\mathcal{K}}$	5/4/17	5 - 18 GHz THRESHOLD DETECTOR								
CHECKED		SIZE	FSCM NO.		DWG NO.					REV.
		⊥ A 71A34 PRELIMINAF			/INARY	′		1		
ISSUED		SCALE	N:S				SHEET	1	OF	3

SPECIFICATIONS

- FREQUENCY RANGE:—— 5 GHz TO 18 GHz
- _____ 3:1 MAXIMUM @ −20 dBm VSWR: —
- THRESHOLD ADJ. RANGE:— −20 dBm TO −10 dBm
- INPUT FLATNESS: ±2.0 dB MAXIMUM
- MAXIMUM INPUT POWER: +17 dBm CW
- THRESHOLD STABILITY ±2.0 dB MAX. OVER FREQUENCY AND TEMP.
- RESPONSE TIME:
 100 ns MAXIMUM
 OUTPUT
 TTL
- POWER SUPPLY: +15V @ 100 mA MAXIMUM
- CONNECTORS:
 - RF INPUT: ————— SMA (FEMALE)
 - SMA (FEMALE)/SOLDER PIN OUTPUT:---
 - THRESHOLD ADJUST: SOLDER PIN
 - DC POWER: SOLDER PIN
- OPERATING TEMPERATURE:— −40°C TO +85°C
- 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.

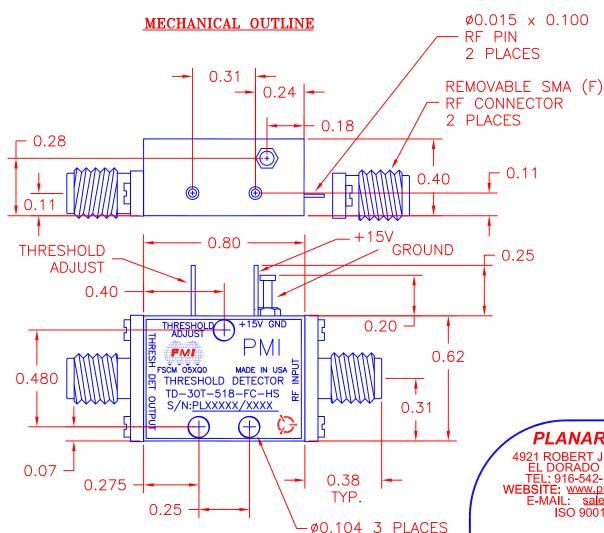


NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION ALL DIMENSIONS ARE IN INCHES TOLERANCES: X.XX ±0.020 X.XXX ±0.010

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REVISIONS							
ONE	REV.	DESCRIPTION	DATE	APPROVED			
	1	ORIGINAL RELEASE	5/4/17				



ALL DIMENSIONS ARE IN INCHES TOLERANCES:

X.XX ±0.020 X.XXX ±0.010

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		TITLE		MEC	HANI	CAL OUT	LINE			
APPROVALS DATE			TD-30T-518-FC-HS							
$v_{\mathcal{K}}$	5/4/17	5 - 18 GHz THRESHOLD DETECTOR								
CHECKED		SIZE	FSCM NO.		DWG NO.					REV.
		A 71A34		PRELIMINARY				1		
ISSUED		SCALE	N:S				SHEET	2 (0F	3

DESCRIPTION

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ENVIRONMENTAL SPECIFICATIONS

ALTITUDE (LOW PRESSURE)	PER: MIL-810F, METHOD-500.4 PROCEDURE-II
• HIGH TEMPERATURE - STORAGE/OPERATING -	35°C TO 85°C
• LOW TEMPERATURE - STORAGE-	PER: MIL-810F, METHOD-502.4 PROCEDURE-I
LOW TEMPERATURE - OPERATING	
THERMAL SHOCK ————————————————————————————————————	
RAIN-DRIP TEST———————————————————————————————————	PER: MIL-810F, METHOD-506.4 PROCEDURE-II
HUMIDITY	PER: MIL-810F, METHOD-507.4 PROCEDURE-III
FUNGUS (MOLD GROWTH)	PER: MIL-810F, METHOD-508.5
• SALT FOG—	PER: MIL-810F, METHOD-509.4
ACCELERATION - FUNCTIONAL	PER: MIL-810F, METHOD-513.5 PROCEDURE-I &
ACCELERATION - STRUCTURAL	PER: MIL-810F, METHOD-513.5 PROCEDURE-I &
RANDOM VIBRATION — FLIGHT ENVELOPE —————	PER: MIL-810F, METHOD-514.5 PROCEDURE-I
• SINUSOIDAL VIBRATION - FLIGHT ENVELOPE	
• SHOCK - FUNCTIONAL (SHOCK PULSE TEST)-	PER: MIL-810F, METHOD-516.5 PROCEDURE-I
TRANSIT DROP ————————————————————————————————————	PER: MIL-810F, METHOD-516.5 PROCEDURE-IV
BENCH HANDLING ————————————————————————————————————	PER: MIL-810F, METHOD-516.5 PROCEDURE-IV
ARRESTOR LANDING———————————————————————————————————	PER: MIL-810F, METHOD-516.5 PROCEDURE-VIII
• COMBINED TEMP., HUMIDITY, & ALTITUDE (CATH)—	PER: MIL-810F, METHOD-520.2 PROCEDURE-III
GUN FIRE VIBRATION ————————————————————————————————————	
SOLAR RADIATION (ACTINIC EFFECT)	PER: MIL-810F, METHOD-505.4 PROCEDURE-II
BLOWING RAIN SAND & DUST	PER: MIL-810F, METHOD-506.4 PROCEDURE-I
• SAND & DUST——————	PER: MIL-810F, METHOD-510.4 PROCEDURE-I &
FLUID CONTAMINATION ————————————————————————————————————	
ICING/FREEZING RAIN ————————————————————————————————————	PER: MIL-810F, METHOD-521.2 PROCEDURE-I

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