

## DESCRIPTION

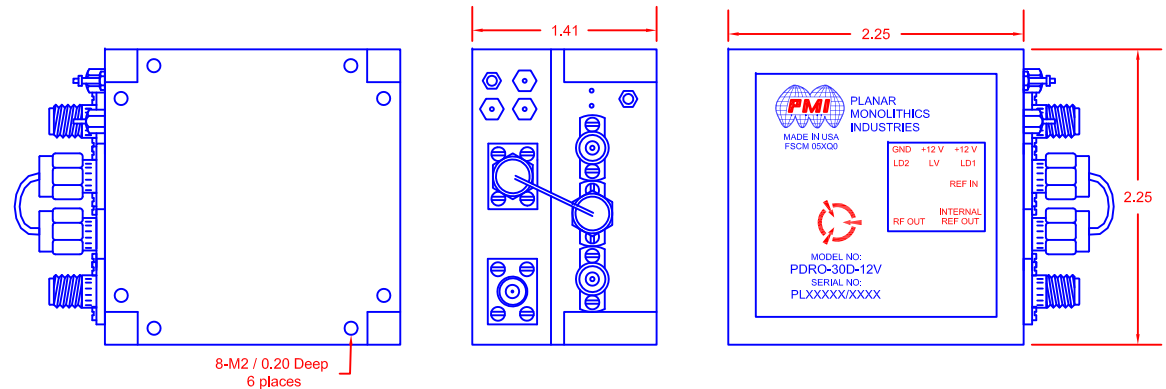
PMI MODEL NO. PDRO-30D-12V IS A PDRO WITH AN OUTPUT FREQUENCY OF 30 GHz AND A MINIMUM OUTPUT LEVEL OF +13 dBm. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/2/2021	

## MECHANICAL OUTLINE

## SPECIFICATIONS

- OUTPUT FREQUENCY: ----- 30GHz
- REFERENCE FREQUENCY: ----- 10 MHz
- INPUT LEVEL: ----- 3 dBm +/-10 dBm
- OUTPUT LEVEL: ----- +13 dBm MIN
- SPURIOUS: ----- -75 dBc MAX
- HARMONICS: ----- -10 dBc GOAL
- LOAD VSWR: ----- 1:1.5
- PHASE NOISE: ----- -74 dBc/Hz @ 100 Hz MAX  
-89 dBc/Hz @ 1 kHz MAX  
-99 dBc/Hz @ 10 kHz MAX  
-99 dBc/Hz @ 100 kHz MAX  
-120 dBc/Hz @ 1 MHz MAX
- FREQUENCY STABILITY: ----- SAME AS REFERENCE
- SUPPLY VOLTAGE: ----- +12 V ± 10%
- CURRENT: ----- 550 mA MAX
- LOCK DETECTOR: ----- TTL HIGH - LOCK
- CONNECTOR: ----- RF OUT CONNECTOR: 2.92K  
REF IN CONNECTOR: SMA (K)  
POWER: THR CAPACITANCE
- FINISH: ----- UNPAINTED
- REFERENCE PHASE NOISE: ----- -137 dBc/Hz @ 10 Hz MAX  
-162 dBc/Hz @ 100 Hz MAX  
-172 dBc/Hz @ 1 kHz MAX  
-174 dBc/Hz @ 10 kHz MAX



## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +70 °C (OPERATING)  
-55 °C TO +85 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, 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 [mm]  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>AF</i>		7/2/2021	PRODUCT FEATURE PDRO-30D-12V			-
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
ISSUED			SCALE N:S		SHEET 1 OF 1	