

DESCRIPTION

PMI MODEL NO. PLDRO-14D275-25M-EXT-ROHS IS A PLDRO WITH AN OUTPUT FREQUENCY OF 14.275 GHz. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.

SPECIFICATIONS

- OUTPUT FREQUENCY: ----- 14.275 GHz
- REFERENCE FREQUENCY: ----- 25 MHz (EXTERNAL)
- OUTPUT POWER INTO 50 OHMS OVER THE OPERATIONAL TEMPERATURE :- +13 to +15 dBm
- NO LOCK BREAK PULLING VSWR: ----- 3.0:1 MIN
- OUTPUT DISCRETE SPURIOUS @ +/- (10 MHz to 2 GHz) AWAY FROM THE CARRIER: ----- -71 dBc MAX
- OUTPUT HARMONICS: ----- -20 dBc MAX
- OUTPUT SSB PHASE NOISE: -----
 - 46 dBc/Hz @ 10 Hz OFFSET
 - 76 dBc/Hz @ 100 Hz OFFSET
 - 86 dBc/Hz @ 1 kHz OFFSET
 - 99 dBc/Hz @ 10 kHz OFFSET
 - 109 dBc/Hz @ 100 kHz OFFSET
 - 121 dBc/Hz @ 1 MHz OFFSET
 - 136 dBc/Hz @ >=1 MHz OFFSET
- REFERENCE INPUT POWER: ----- +7 ± 3 dBc
- REFERENCE INPUT SPURIOUS @ GREATER THAN 1 MHz AWAY FROM THE CARRIER: ----- -80 dBc MAX
- EXTERNAL REFERENCE SSB PHASE NOISE @ 25 MHz: -----
 - 115 dBc/Hz @ 10 Hz OFFSET
 - 140 dBc/Hz @ 100 Hz OFFSET
 - 155 dBc/Hz @ 1 kHz OFFSET
 - 165 dBc/Hz @ 10 kHz OFFSET
 - 168 dBc/Hz @ 100 kHz OFFSET
- DC POWER SUPPLY INPUT: ----- +12 +/- 0.5 VDC, 450 mA MAX (500mA MAX @ COLD TEMP)
- LOCK INDICATOR OUTPUT: ----- TTL HIGH FOR IN-LOCK; TTL LOW FOR OUT-OF-LOCK
- PHASE VOLTAGE MONITOR OUTPUT: - 0 to 12 VDC
- OPERATIONAL TEMPERATURE AT MOUNTING PLATE: ----- -40° to 75°C
- COLD START TEMPERATURE: ----- -40°C MAX
- RF CONNECTORS: ----- SMA FEMALE
- PINS: ----- SOLDERABLE

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

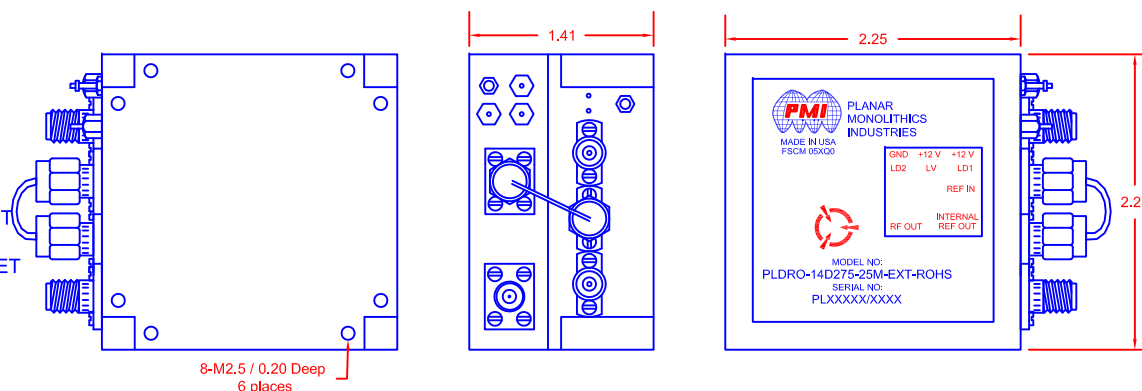
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	12/22/2022	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		12/22/22		PRODUCT FEATURE			
REDRAWN				PLDRO-14D275-25M-EXT-ROHS			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	PRELIMINARY	-
				SCALE	N:S	SHEET	1 OF 1