

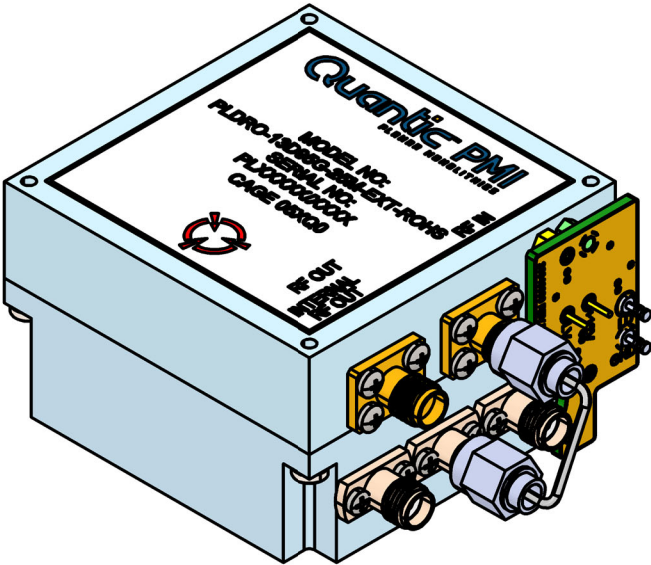
DESCRIPTION:

PMI MODEL PLDRO-13D95G-25M-EXT-ROHS IS A PLDRO WITH AN OUTPUT FREQUENCY OF 13.950 GHz. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.

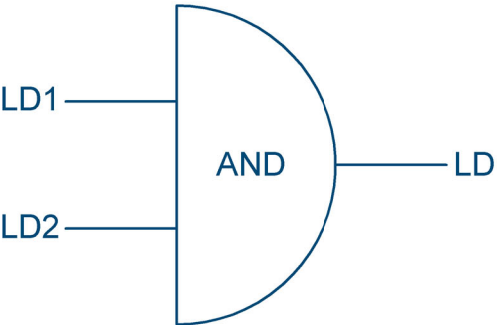
SPECIFICATIONS:

- OUTPUT FREQUENCY:..... 13.950 GHz
- REFERENCE FREQUENCY:..... 25 MHz (EXTERNAL)
- OUTPUT POWER INTO 50 OHMS OVER:..... +13 TO +15 dBm
THE OPERATIONAL TEMPERATURE
- NO LOCK BREAK PULLING VSWR:..... 3.0:1 MAX
- OUTPUT DISCRETE SPURIOUS:..... -76 dBc MAX
@ ± (10 MHz TO 2 GHz) AWAY FROM CARRIER
- OUTPUT HARMONICS:..... -20 dBc MAX
- OUTPUT SSB PHASE NOISE:..... -46 dBc/Hz MAX @ 10 Hz OFFSET
PHASE NOISE BETWEEN TWO SPECIFIED POINTS -71 dBc/Hz MAX @ 100 Hz OFFSET
SHALL BE LOWER THAN THE STRAIGHT LINE -101 dBc/Hz MAX @ 1 kHz OFFSET
DRAWN BETWEEN THE TWO POINTS ON A dB vs LOG -111 dBc/Hz MAX @ 10 kHz OFFSET
FREQUENCY PLOT. -116 dBc/Hz MAX @ 100 kHz OFFSET
-131 dBc/Hz MAX @ 1 MHz OFFSET
-141 dBc/Hz MAX @ ≥10 MHz OFFSET
- REFERENCE INPUT POWER:..... +10 ±3 dBm
- REFERENCE INPUT SPURIOUS @ > 1MHz :..... -80 dBc MAX
AWAY FROM THE CARRIER
- EXTERNAL REFERENCE SSB PHASE :..... -110 dBc/Hz MAX @ 10 Hz OFFSET
NOISE @ 25 MHz -137 dBc/Hz MAX @ 100 Hz OFFSET
-156 dBc/Hz MAX @ 1 kHz OFFSET
-165 dBc/Hz MAX @ 10 kHz OFFSET
-168 dBc/Hz MAX @ 100 kHz OFFSET
- DC POWER SUPPLY INPUT :..... +12 +/- 0.5 VDC, 500 mA MAX
- 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 :..... -50°C TO +75°C
MOUNTING PLATE
- COLD START TEMPERATURE :..... -45°C MAX
- RF CONNECTORS :..... SMA FEMALE
- PINS :..... SOLDERABLE
- FINISH :..... NICKEL PLATED

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/26/2023	



INPUT		OUTPUT
LD1	LD2	LD
TTL LOW	TTL LOW	TTL LOW
TTL LOW	TTL HIGH	TTL LOW
TTL HIGH	TTL LOW	TTL LOW
TTL HIGH	TTL HIGH	TTL HIGH



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

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± 0.02 ±
± .XXX ± 0.01

APPROVALS
DRAWN
R. SIRK
REDRAWN
ISSUED

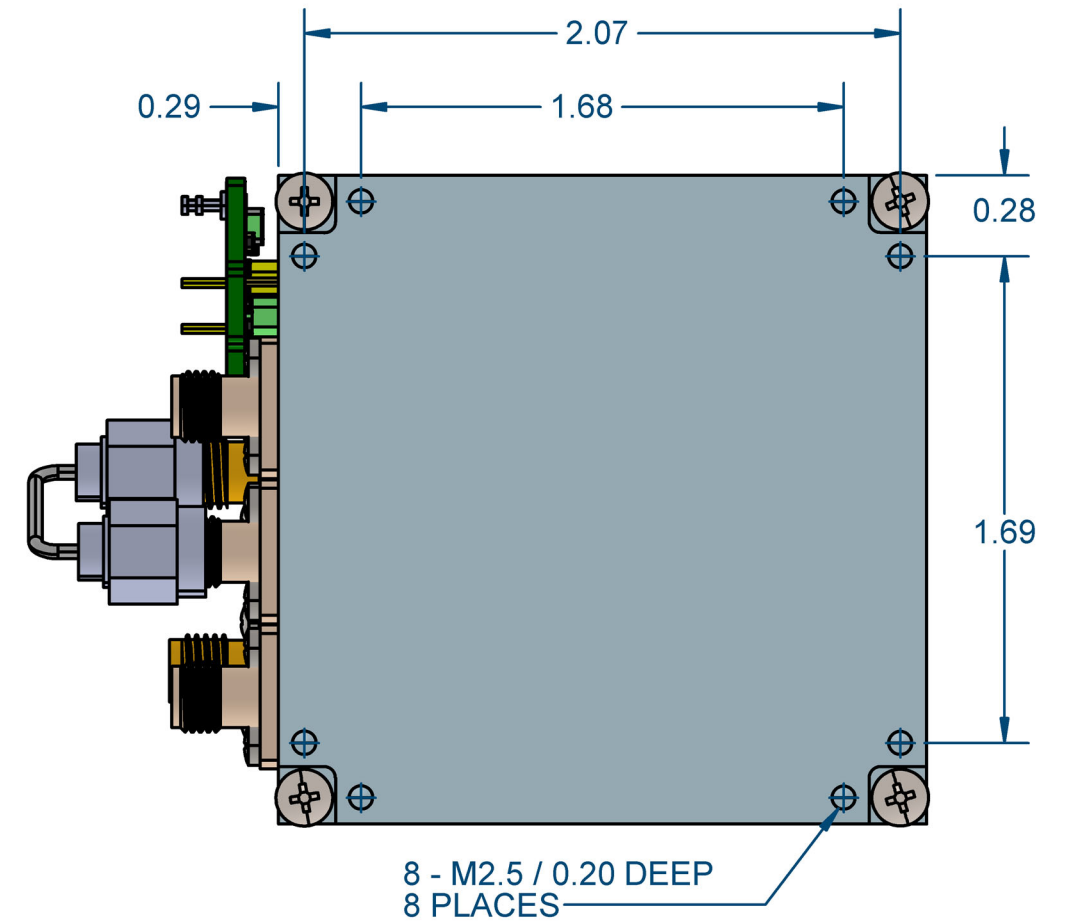
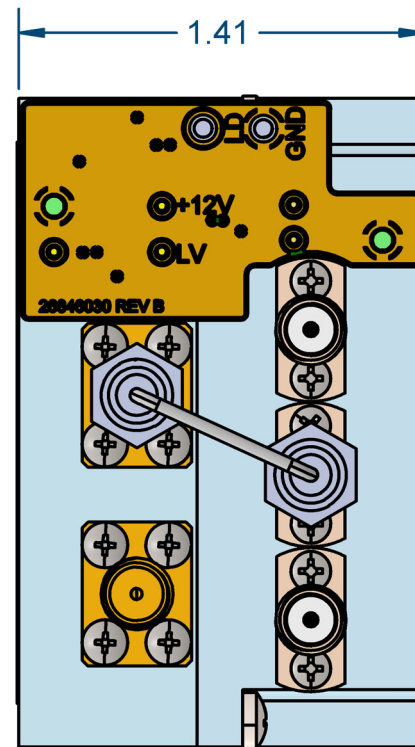
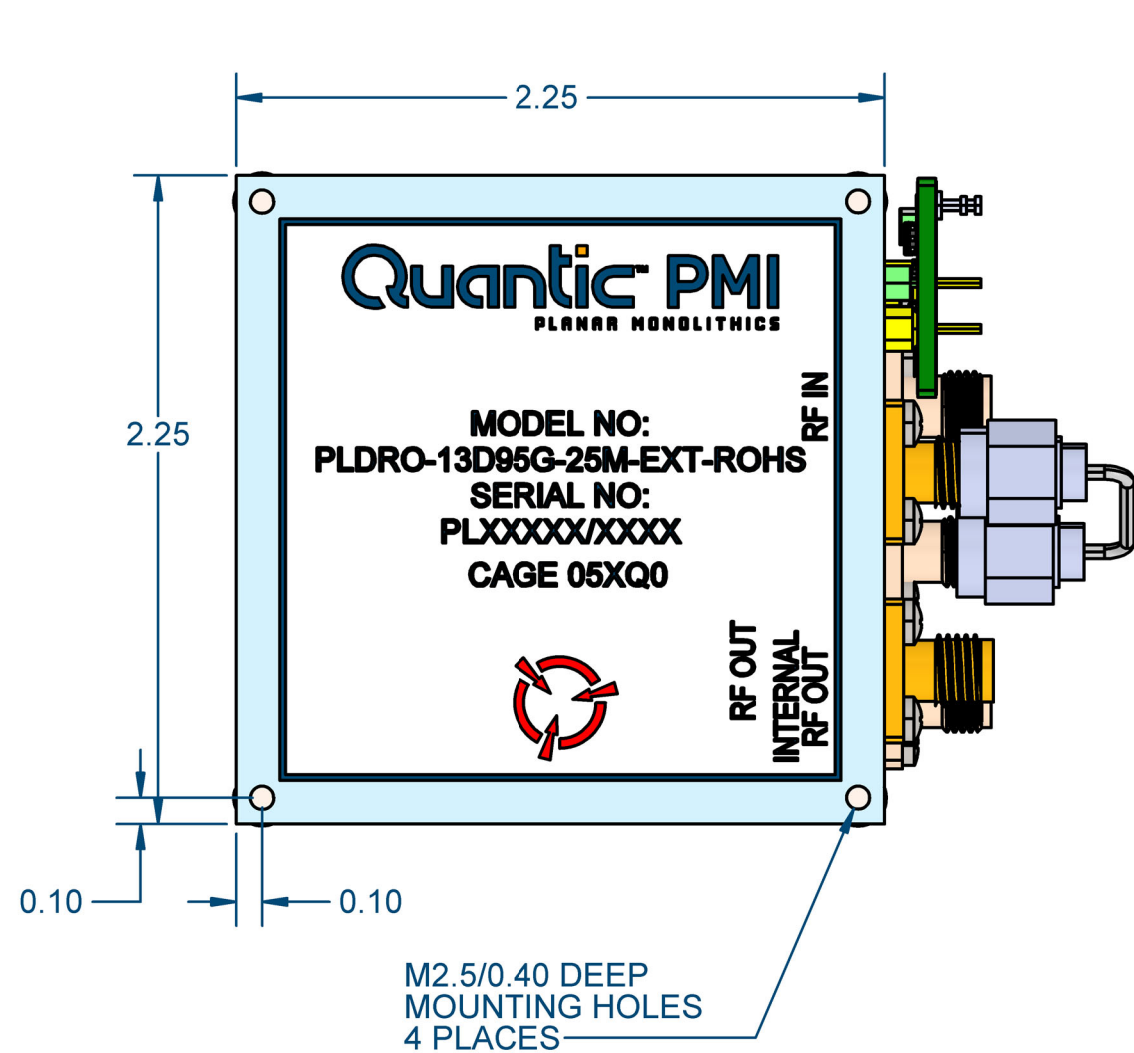
DATE
9/26/2023

Quantic PMI
PLANAR NONLINEAR
7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA
TEL: (301) 662-5019, FAX: (301) 662-1731
WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED

TITLE
OUTLINE
PLDRO-13D95G-25M-EXT-ROHS

SIZE FSCM NO. DWG NO. REV.
B 05XQ0 27047240 A1

SCALE 1:1 SHEET 1 OF 2



NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
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		DRAWN		R. Sirk		9/26/2023		TITLE	
		REDRAWN						OUTLINE	
		ISSUED						PLDRO-13D95G-25M-EXT-ROHS	
		SIZE		FSCM NO.		DWG NO.		REV.	
		B		05XQ0		27047240		A1	
		SCALE 1:1						SHEET 2 OF 2	