

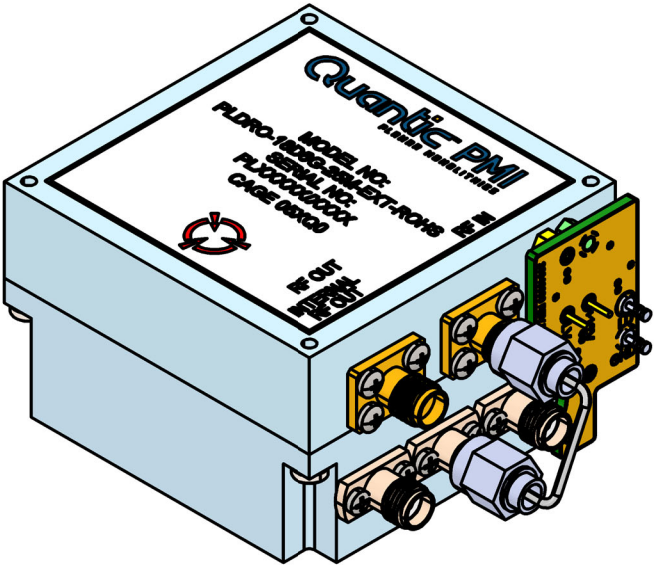
DESCRIPTION:

PMI MODEL PLDRO-18D6G-25M-EXT-ROHS IS A PLDRO WITH AN OUTPUT FREQUENCY OF 18.6 GHz. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.

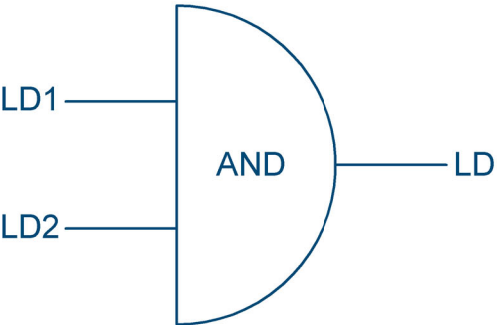
SPECIFICATIONS:

- OUTPUT FREQUENCY:..... 18.60 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:..... -40 dBc/Hz MAX @ 10 Hz OFFSET
PHASE NOISE BETWEEN TWO SPECIFIED POINTS
SHALL BE LOWER THAN THE STRAIGHT LINE
DRAWN BETWEEN THE TWO POINTS ON A dB vs LOG
FREQUENCY PLOT.
 - 65 dBc/Hz MAX @ 100 Hz OFFSET
 - 95 dBc/Hz MAX @ 1 kHz OFFSET
 - 105 dBc/Hz MAX @ 10 kHz OFFSET
 - 110 dBc/Hz MAX @ 100 kHz OFFSET
 - 125 dBc/Hz MAX @ 1 MHz OFFSET
 - 135 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 (@ 25°C)
- 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	
	A2	ECN # 23-0229	11/30/2023	



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
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ISO 9001 CERTIFIED

TITLE
OUTLINE
PLDRO-18D6G-25M-EXT-ROHS

SIZE
B

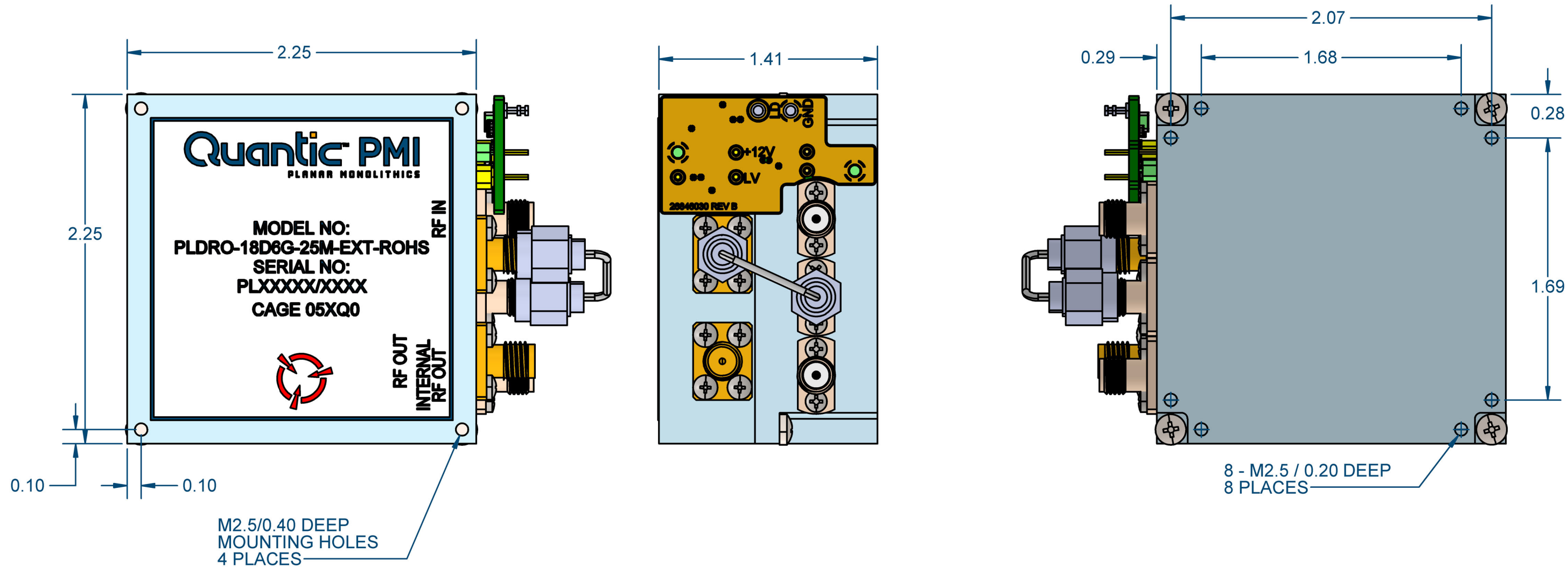
FSCM NO.
05XQ0

DWG NO.
27047260

REV.
A2

SCALE 1:1

SHEET 1 OF 2



NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
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			APPROVALS		DATE		TITLE OUTLINE PLDRO-18D6G-25M-EXT-ROHS					
			DRAWN R. SIRK		9/26/2023							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			REDRAWN									
			ISSUED									
					SIZE B		FSCM NO. 05XQ0		DWG NO. 27047260		REV. A2	
					SCALE 1:1						SHEET 2 OF 2	