

DESCRIPTION:

PMI MODEL PLDRO-17D950G-25M-EXT-ROHS IS A PLDRO WITH AN OUTPUT FREQUENCY OF 17.950 GHz. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS (RoHS/REACH COMPLIANT).

SPECIFICATIONS:

- OUTPUT FREQUENCY:..... 17.950 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 MIN
- OUTPUT DISCRETE SPURIOUS:..... -76 dBc MAX
- @ +/- (10 MHz to 2 GHz) AWAY FROM THE CARRIER
- OUTPUT HARMONICS:..... -20 dBc MAX

- OUTPUT SSB PHASE NOISE:..... -42 dBc/Hz @ 10 Hz OFFSET
- -67 dBc/Hz @ 100 Hz OFFSET
- -98 dBc/Hz @ 1 kHz OFFSET
- -106 dBc/Hz @ 10 kHz OFFSET
- -109 dBc/Hz @ 100 kHz OFFSET
- -126 dBc/Hz @ >=1 MHz OFFSET

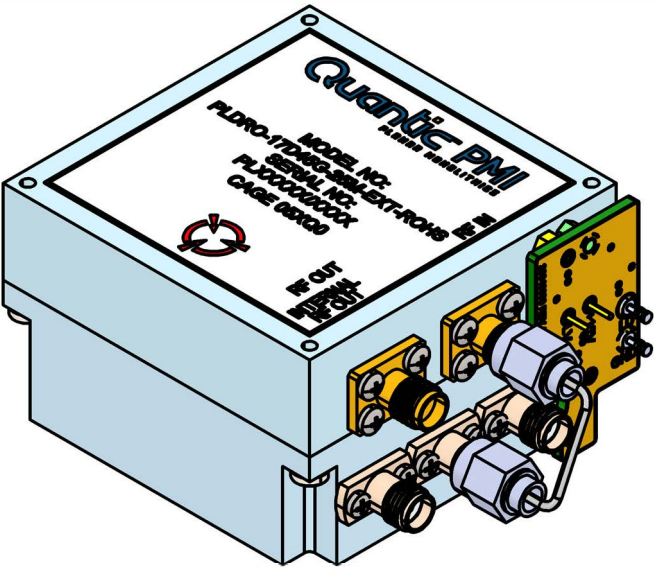
- PHASE NOISE BETWEEN TWO SPECIFIED FREQUENCY POINTS SHALL BE LOWER THAN THE STRAIGHT LINE DRAWN BWTWEEN THE TWO POINTS ON A dB VS. LOG FREQUENCY PLOT.

- REFERENCE INPUT POWER:..... 10 +/- 3 dBm
- REFERENCE INPUT SPURIOUS @ > 1MHz :..... -80 dBc MAX
- AWAY FROM THE CARRIER
- EXTERNAL REFERENCE SSB PHASE :..... -110 dBc/Hz @ 10 Hz OFFSET
- NOISE @ 25 MHz
- -137 dBc/Hz @ 100 Hz OFFSET
- -156 dBc/Hz @ 1 kHz OFFSET
- -165 dBc/Hz @ 10 kHz OFFSET
- -168 dBc/Hz @ 100 kHz OFFSET

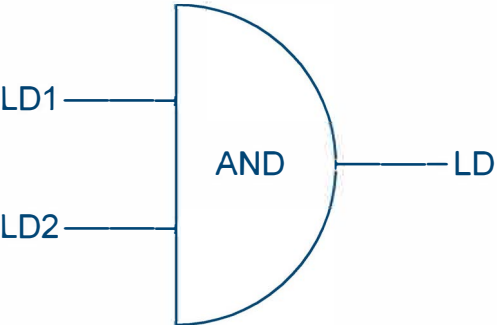
- DC POWER SUPPLY INPUT :..... +12 +/- 0.5 VDC, 500 mA MAX
- LOCK INDICATOR OUTPUT :..... TTL HIGH FOR IN-LOCK
- TTL LOW FOR OUT-OF-LOCK
- PHASE VOLTAGE MONITOR OUTPUT :..... 0 TO +12 VDC
- OPERATIONAL TEMPERATURE AT :..... -40°C TO +75°C
- MOUNTING PLATE
- COLD START TEMPERATURE :..... -45°C MAX
- RF CONNECTORS :..... SMA (SS)
- PINS :..... SOLDERABLE
- FINISH :..... NICKEL PLATED

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	2/28/2023	

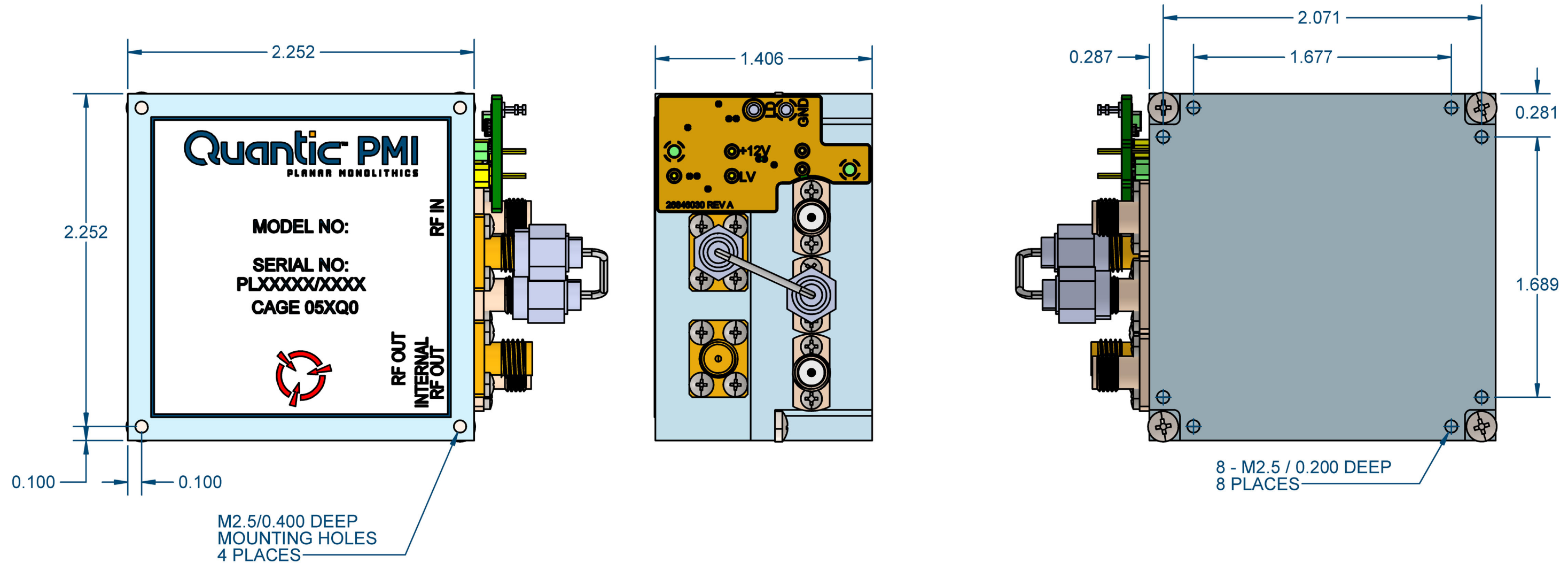


INPUT		OUTPUT
LD1	LD2	LD
TTL LOW	TTL LOW	TTL LOW
TTL LOW	TTL HIGH	TTL LOW
TTL HIGH	TTL LOW	TTL LOW
TTL HIGH	TTL HIGH	TTL HIGH



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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01			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					
	APPROVALS		DATE		TITLE OUTLINE			
	DRAWN R. SIRK		6/9/2023					
	REDRAWN							
ISSUED				SIZE	FSCM NO. 05XQ0	DWG NO.	REV.	
				SCALE 1:1		SHEET 1 OF 2		



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		ISSUED							
		SIZE B	FSCM NO. 05XQ0	DWG NO.	REV. B1				
		SCALE 1:1				SHEET 2 OF 2			