

**SUMMARY TEST DATA
ON
PLDRO-18D2G-25M-EXT-ROHS**

Customer:

SO No:

Model No: PLDRO-18D2G-25M-EXT-ROHS

Serial No: PL43122/2348

Tested By: K. Craven

Temperature: 25°C/ -50°C/ 75°C

Date: 8/20/2024

Drawing No: 27647280

Rev: A1

TEST ITEM	PARAMETERS	SPECIFIED VALUE	+25°C	-50°C	+75°C	QA/QC
1	Output Frequency (GHz)	18.2	18.2	18.2	18.2	PMI QA2
2	Reference Frequency (MHz)	25	25	25	25	
3	Input Power Level (dBm)	+10 ±3	+10 ±3	+10 ±3	+10 ±3	
4	No Lock Break VSWR	3:1 Max	Pass	Pass	Pass	
5	Output Power Level (dBm)	+13 to +15 Min	13.5	14.6	13.2	
6	Output Spurious (10 MHz to 2 GHz) (dBc)	-76 Max	-78	-77	-79	
7	Output Harmonics (dBc)	-20 Min	-25	-25	-25	
8	Output SSB Phase Noise	-40 dBc/Hz @ 10 Hz Max	-40	-61	-57	-57
		-65 dBc/Hz @ 100 Hz Max	-65	-90	-90	-91
		-95 dBc/Hz @ 1 kHz Max	-95	-113	-110	-113
		-105 dBc/Hz @ 10 kHz Max	-105	-119	-118	-120
		-110 dBc/Hz @ 100 kHz Max	-110	-118	-116	-120
		-125 dBc/Hz @ 1 MHz Max	-125	-132	-133	-130
		-135 dBc/Hz @ ≥10 MHz Max	-135	-156	-159	-156
9	Reference Input Spurious (dBc)	-80 Max	-80 Max	-80 Max	-80 Max	
10	External Reference Phase Noise	-110 dBc/Hz @ 10 Hz Max	-110	-110	-110	-110
		-137 dBc/Hz @ 100 Hz Max	-137	-137	-137	-137
		-156 dBc/Hz @ 1 kHz Max	-156	-156	-156	-156
		-165 dBc/Hz @ 10 kHz Max	-165	-165	-165	-165
		-168 dBc/Hz @ 100 kHz Max	-168	-168	-168	-168

*Spurious maximum measured value includes both wideband sweep spurs and sidebands close to carrier.

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11	Lock Detector	TTL High - In Lock; TTL Low - Out of Lock	TTL High - In Lock; TTL Low - Out of Lock	TTL High - In Lock; TTL Low - Out of Lock	TTL High - In Lock; TTL Low - Out of Lock	PMI QA2
12	Supply Voltage (V)	+12±0.5V @ 500mA Max (@ 25°C)	+12±0.5 V @ 410 mA	+12±0.5 V @ 500 mA	+12±0.5 V @ 340 mA	
13	Phase Voltage Monitor Output (V)	0 to +12	0 to +12	0 to +12	0 to +12	
14	Cold Start Temperature:	-45°C Max	-45°C Max	-45°C Max	-45°C Max	PMI QA2

QA/QC Approval: _____

PMI
QA2

Date: _____

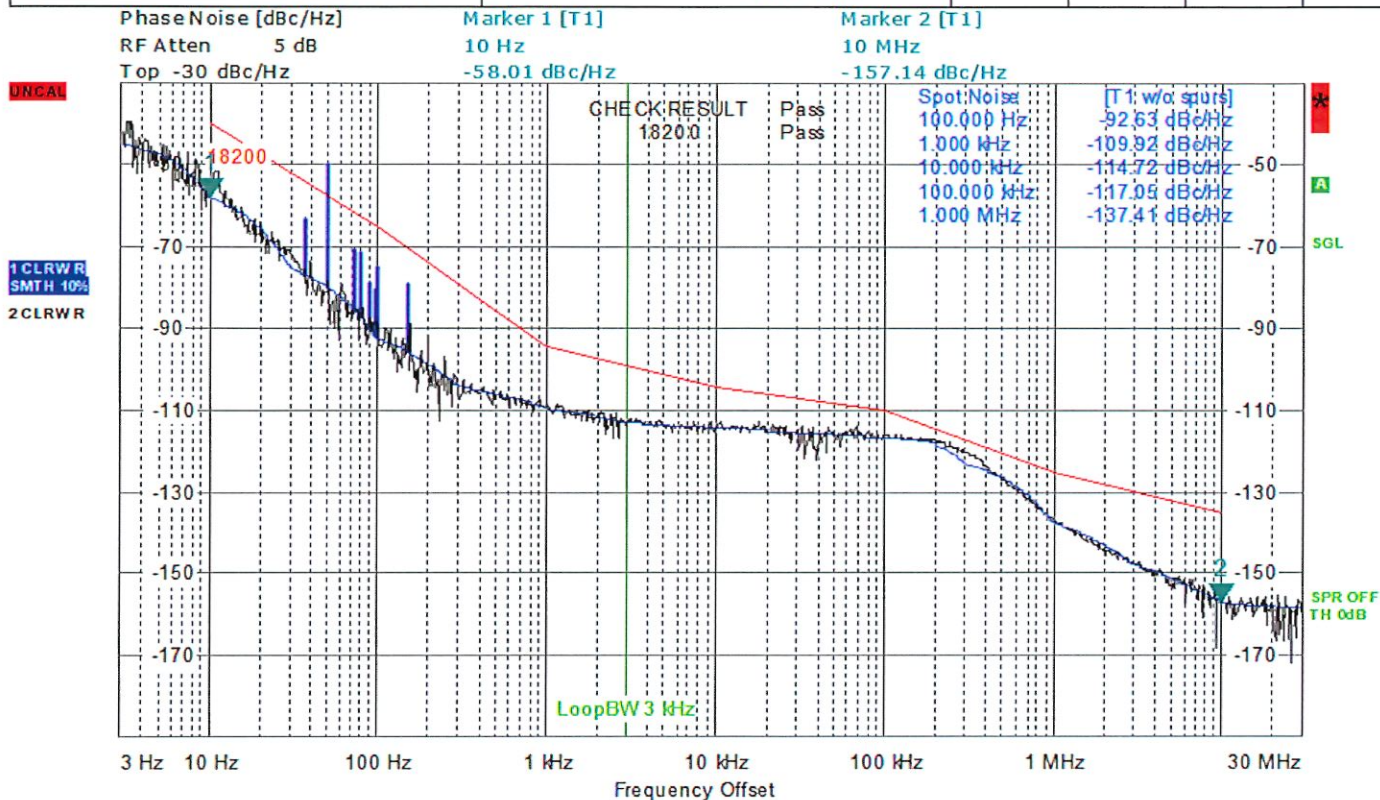
8/26/2024

7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@quanticpmi.com

**SUMMARY TEST DATA
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+25°C Phase noise curve

Settings		Residual Noise [T1 w/o spurs]		Phase Detector + 0 dB			
Signal Frequency:	18.200000 GHz	Int PHN (3.0 .. 30.0 M)	-40.3 dBc				
Signal Level:	5.45 dBm	Residual PM	0.781 °				
Cross Corr Mode	Harmonic 1	Residual FM	1.733 kHz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.1191 ps				





Settings		Residual Noise [T1 w/o spurs]		Phase Detector + 20 dB			
Signal Frequency:	18.200000 GHz	Int PHN (3.0 .. 30.0 M)	-38.0 dBc				
Signal Level:	5.4 dBm	Residual PM	1.023 °				
Cross Corr Mode	Harmonic 1	Residual FM	1.343 kHz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.1561 ps				



**SUMMARY TEST DATA
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+75°C Phase noise curve

Settings		Residual Noise [T1 w/o spurs]		Phase Detector +0 dB			
Signal Frequency:	18.200000 GHz	Int PHN (3.0 .. 30.0 M)	-40.2 dBc				
Signal Level:	3.93 dBm	Residual PM	0.789 °				
Cross Corr Mode	Harmonic 1	Residual FM	1.919 kHz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.1204 ps				

