

**SUMMARY TEST DATA
ON
PLDRO-13D95G-25M-EXT-ROHS**

Customer: _____
 SO No: _____
 Model No: PLDRO-13D95G-25M-EXT-ROHS
 Serial No: PL43115/2348

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)		13.95	13.95	13.95	13.95	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	14.5	14.6	14.0	
6	Output Spurious (10 MHz to 2 GHz) (dBc)		-76 Max	-79	-78	-79	
7	Output Harmonics (dBc)		-20 Min	-25	-25	-25	
8	Output SSB Phase Noise	-46 dBc/Hz @ 10 Hz Max	-46	-64	-62	-64	
		-71 dBc/Hz @ 100 Hz Max	-71	-94	-93	-94	
		-101 dBc/Hz @ 1 kHz Max	-101	-115	-114	-116	
		-111 dBc/Hz @ 10 kHz Max	-111	-121	-122	-119	
		-116 dBc/Hz @ 100 kHz Max	-116	-123	-123	-122	
		-131 dBc/Hz @ 1 MHz Max	-131	-143	-142	-142	
		-141 dBc/Hz @ ≥10 MHz Max	-141	-152	-151	-152	
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	PMI QA2
		-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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TEST ITEM	PARAMETERS	SPECIFIED VALUE	+25	-50	+75	QA/QC
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 @ 370 mA	+12±0.5 V @ 460 mA	+12±0.5 V @ 320 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:

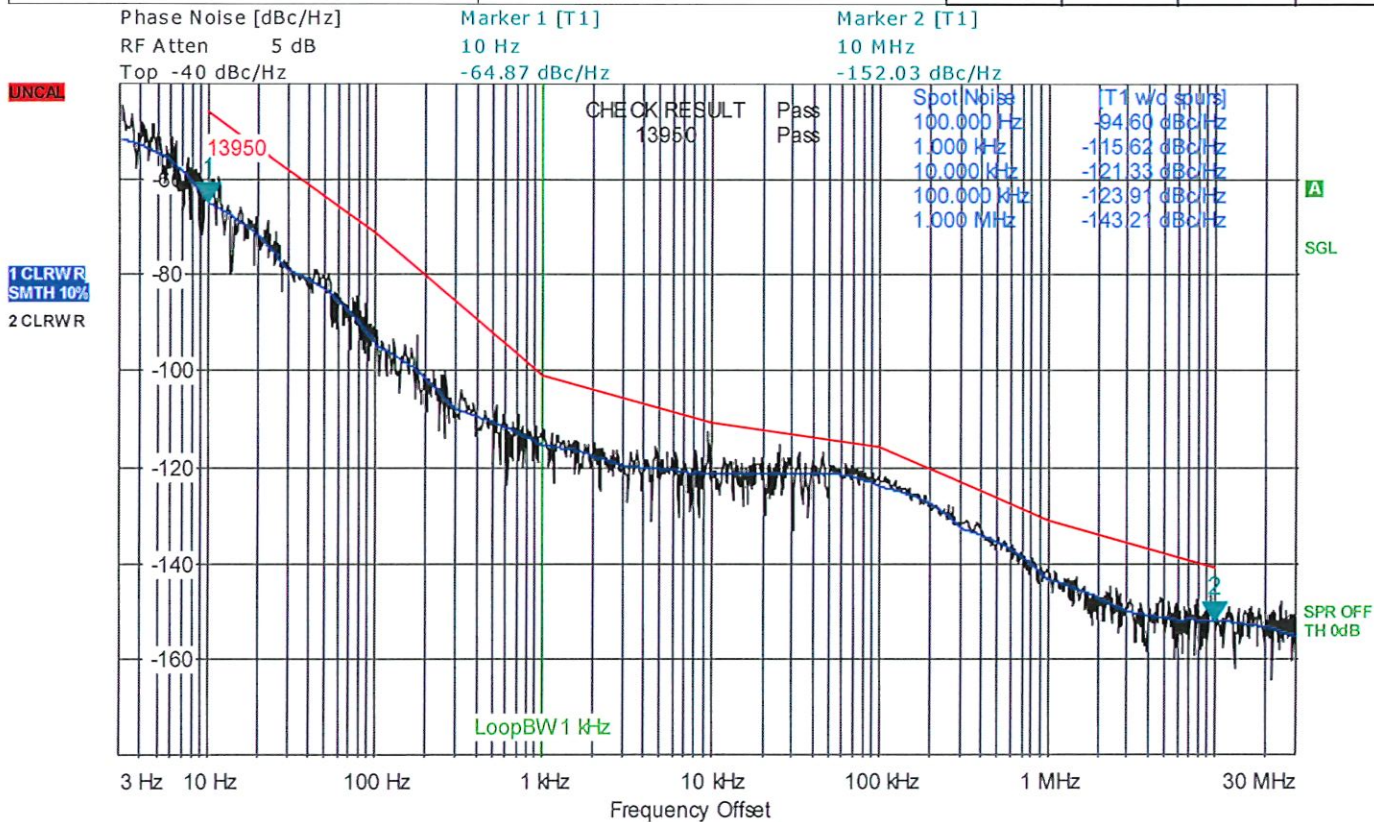
8/20/2024

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+25°C Phase noise curve

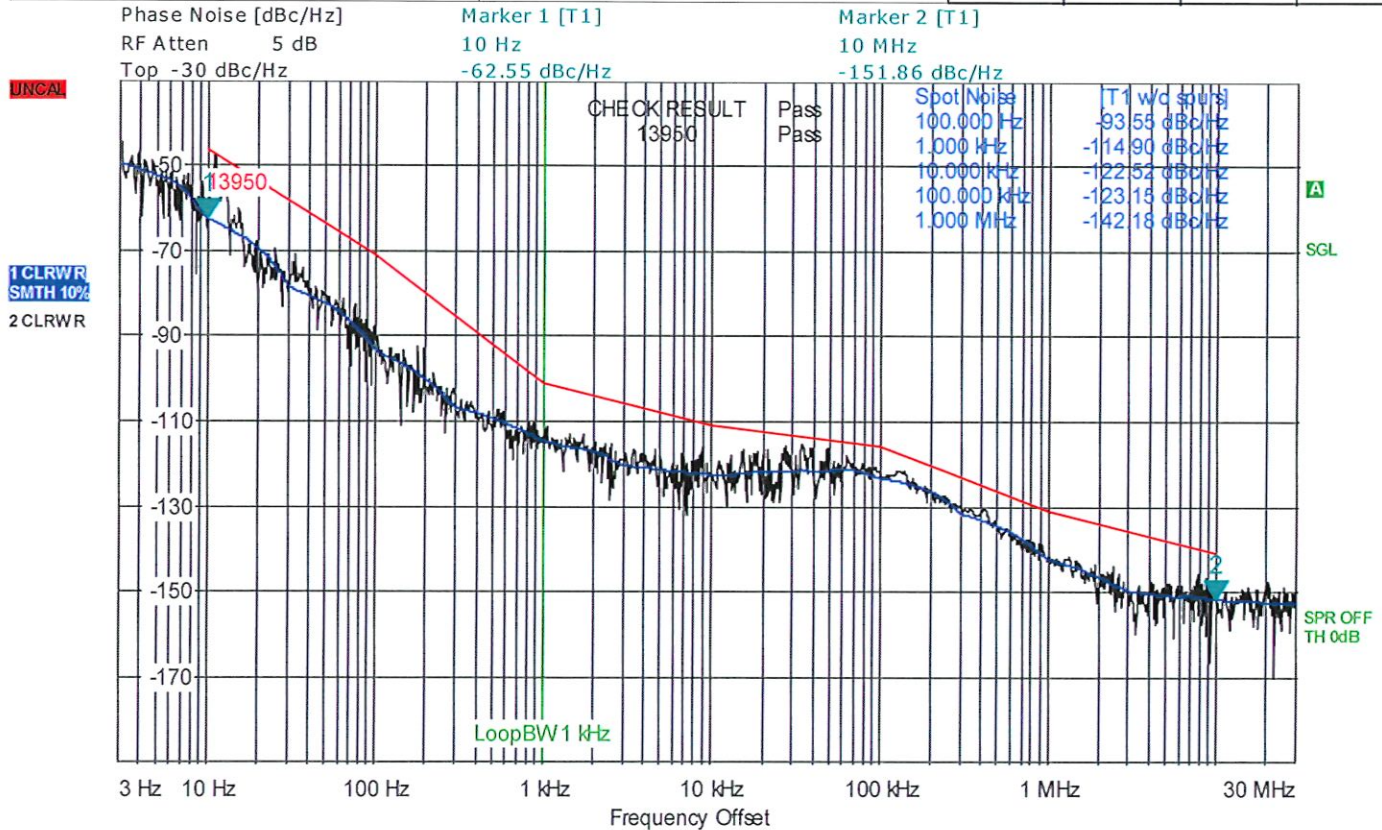
Settings		Residual Noise [T1 w/o spurs]		Phase Detector +20 dB			
Signal Frequency:	13.949991 GHz	Int PHN (3.0 .. 30.0 M)	-47.1 dBc				
Signal Level:	4.29 dBm	Residual PM	0.359 °				
Cross Corr Mode	Harmonic 1	Residual FM	2.761 kHz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.0716 ps				



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-50°C Phase noise curve

Settings		Residual Noise [T1 w/o spurs]		Phase Detector +20 dB			
Signal Frequency:	13.949991 GHz	Int PHN (3.0 .. 30.0 M)	-44.8 dBc				
Signal Level:	4.14 dBm	Residual PM	0.466 °				
Cross Corr Mode	Harmonic 1	Residual FM	3.183 kHz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.0928 ps				



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+75°C Phase noise curve

Settings		Residual Noise [T1 w/o spurs]		Phase Detector +20 dB			
Signal Frequency:	13.949991 GHz	Int PHN (3.0 .. 30.0 M)	-48.6 dBc				
Signal Level:	4.65 dBm	Residual PM	0.300 °				
Cross Corr Mode	Harmonic 1	Residual FM	3.328 kHz				
Internal Ref Tuned	Internal Phase Det	RMS Jitter	0.0598 ps				

