

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

Customer: _____
 SO No: _____
 Model No: **PLDRO-18D2G-25M-EXT-ROHS**
 Serial No: **PL43121/2348**

Tested By: **K. Craven**
 Temperature: **25°C**
 Date: **11/30/2023**
 Drawing No: **27647280** Rev: **A1**

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA/QC
1	Output Frequency	18.2 GHz	18.2 GHz	
2	Reference Frequency	25 MHz	25 MHz	
3	Input Power Level	+10 ±3 dBm	+10 ±3 dBm	
4	No Lock Break VSWR	3:1 Max	Pass	
5	Output Power Level	+13 to +15 dBm Min	14.6 dBm	
6	Output Spurious (10 MHz to 2 GHz)	-76 dBc Max	-95.2 dBc	
7	Output Harmonics	-20 dBc Min	-55.03 dBc	
8	Output SSB Phase Noise	-40 dBc/Hz @ 10 Hz Max -65 dBc/Hz @ 100 Hz Max -95 dBc/Hz @ 1 kHz Max -105 dBc/Hz @ 10 kHz Max -110 dBc/Hz @ 100 kHz Max -125 dBc/Hz @ 1 MHz Max -135 dBc/Hz @ ≥10 MHz Max	-56.62 dBc/Hz @ 10 Hz -91.37 dBc/Hz @ 100 Hz -106.47 dBc/Hz @ 1 kHz -114.12 dBc/Hz @ 10 kHz -118.4 dBc/Hz @ 100 kHz -137.65 dBc/Hz @ 1 MHz -156.66 dBc/Hz @ 10 MHz	
9	Reference Input Spurious	-80 dBc Max	-80 dBc Max	
10	External Reference Phase Noise	-110 dBc/Hz @ 10 Hz Max -137 dBc/Hz @ 100 Hz Max -156 dBc/Hz @ 1 kHz Max -165 dBc/Hz @ 10 kHz Max -168 dBc/Hz @ 100 kHz Max	-110 dBc/Hz @ 10 Hz Max -137 dBc/Hz @ 100 Hz Max -156 dBc/Hz @ 1 kHz Max -165 dBc/Hz @ 10 kHz Max -168 dBc/Hz @ 100 kHz Max	

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

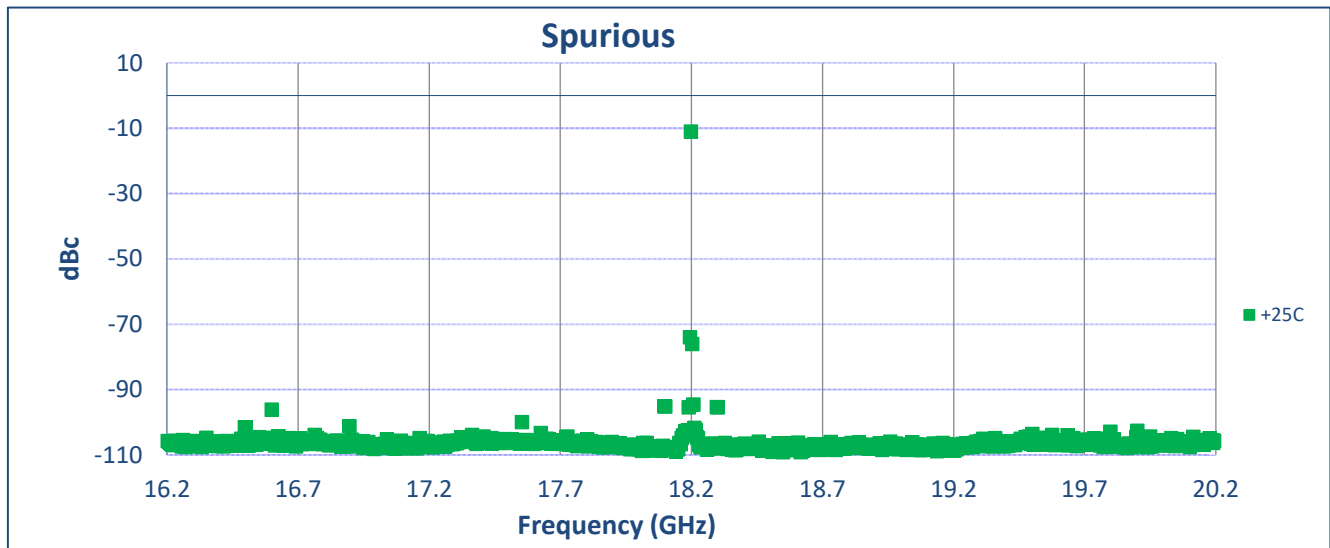
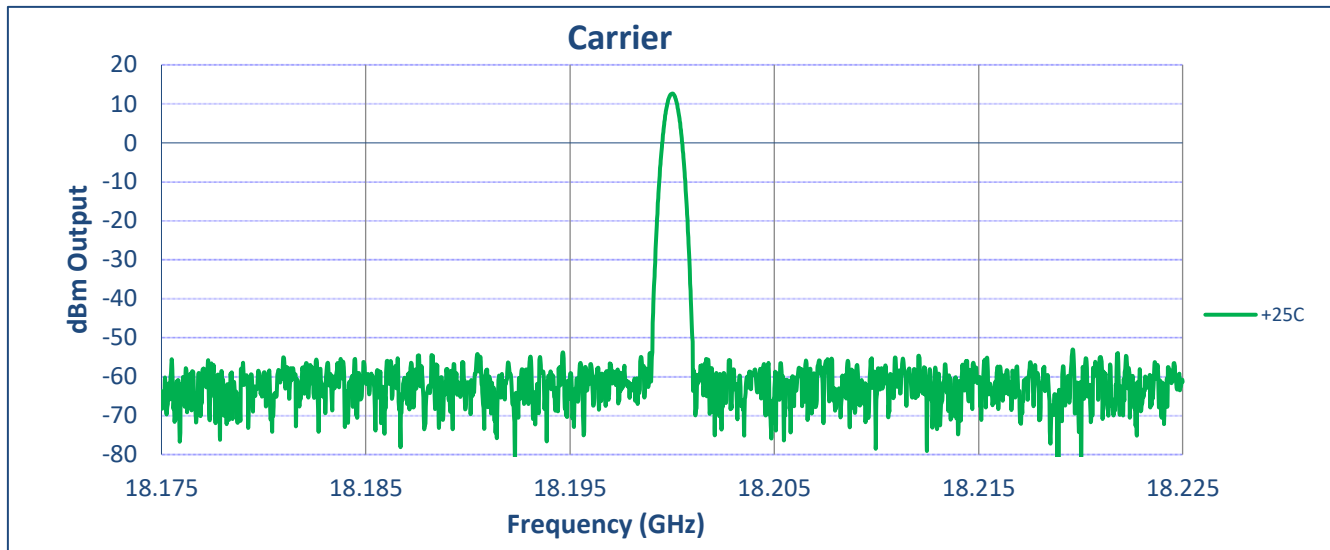
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TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA/QC
11	Lock Detector	TTL High - In Lock; TTL Low - Out of Lock	TTL High - In Lock; TTL Low - Out of Lock	
12	Supply Voltage	+12±0.5V @ 500mA Max (@ 25°C)	+12 ± 0.5V @ 400 mA	
13	Phase Voltage Monitor Output	0V to +12V	0V to +12V	
14	Cold Start Temperature:	-45°C Max	-45°C Max	

QA/QC Approval: _____

Date: _____

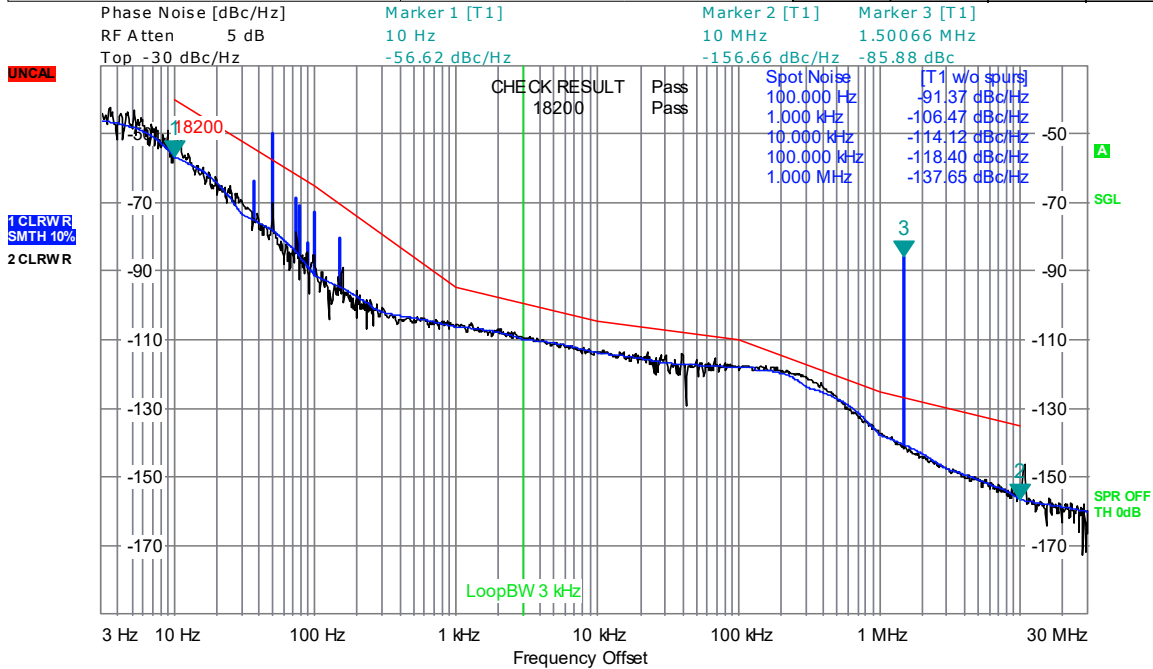
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Phase Noise

R _s	R&S FSUP 50 Signal Source Analyzer				LOCKED			
	Settings		Residual Noise [T1 w/o spurs]		Phase Detector +20 dB			
Signal Frequency:	18.200000 GHz		Int PHN (3.0 .. 30.0 M) -40.3 dBc					
Signal Level:	5.4 dBm		Residual PM 0.780 °					
Cross Corr Mode	Harmonic 1		Residual FM 1.606 kHz					
Internal Ref Tuned	Internal Phase Det		RMS Jitter 0.1191 ps					



Harmonics

-55.03 dBc

