

# TYPICAL CHARACTERISTICS ON PLDRO-1D5G-100M-EXT-SMA

PMI MODEL PLDRO-1D5G-100M-EXT-SMA IS A PLDRO WITH AN OUTPUT FREQUENCY OF 1.5 GHz AND 100 MHz EXTERNAL REFERENCE. FITTED WITH SMA CONNECTORS.



DATE: 6/18/2026  
TESTED BY: OLIVER K.  
REPORTED BY: VIJETA P.

# TYPICAL CHARACTERISTICS ON PLDRO-1D5G-100M-EXT-SMA PRODUCT FEATURE

**DESCRIPTION:**

PMI MODEL PLDRO-1D5G-100M-EXT-SMA IS A PLDRO WITH AN OUTPUT FREQUENCY OF 1.5 GHz AND 100 MHz EXTERNAL REFERENCE. FITTED WITH SMA CONNECTORS.

**SPECIFICATIONS:**

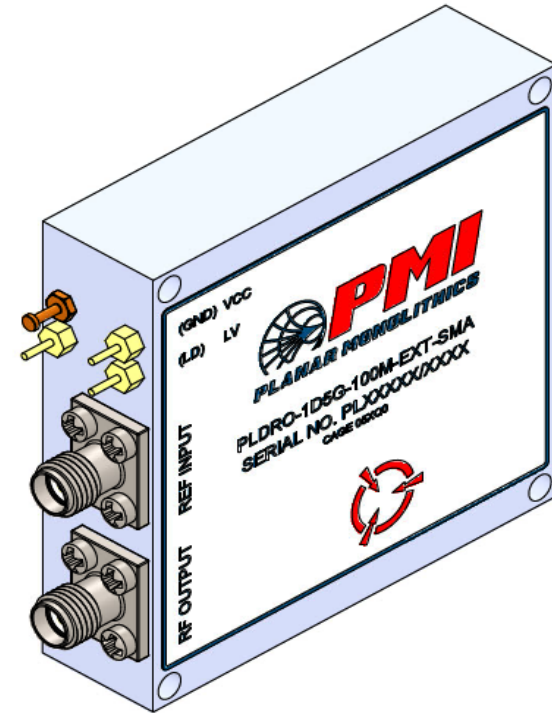
- OUTPUT FREQUENCY:..... 1.5 GHz
- REFERENCE FREQUENCY:..... 100 MHz (SINE WAVE)
- INPUT LEVEL:..... +3 dBm TO +13 dBm
- OUTPUT LEVEL:..... +13 dBm MIN.
- SPURIOUS:..... -70 dBc MAX
- HARMONICS:..... -20 dBc MAX
- LOAD VSWR:..... 1:1.5 MAX
- PHASE NOISE:..... -43 dBc/Hz MAX @ 100 Hz  
 -126 dBc/Hz MAX @ 1 kHz  
 -131 dBc/Hz MAX @ 10 kHz  
 -131 dBc/Hz MAX @ 100 kHz  
 -140 dBc/Hz MAX @ 1 MHz
- FREQUENCY STABILITY:..... SAME AS REFERENCE
- SUPPLY VOLTAGE:..... +15V
- CURRENT:..... 300 mA MAX
- LOCK DETECTOR:..... TTL HIGH IN LOCK
- CONNECTOR:..... RF CONNECTOR: SMA FEMALE  
 POWER CONNECTOR: CAPACITIVE FEEDTHRU
- REFERENCE PHASE NOISE:..... -135 dBc/Hz MAX @ 100 Hz  
 -155 dBc/Hz MAX @ 1 kHz  
 -160 dBc/Hz MAX @ 10 kHz

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +70°C (OPERATING)  
 -50°C TO +80°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103 COND. B
- SHOCK:..... MIL-STD-202, METHOD 213 COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107 COND. A

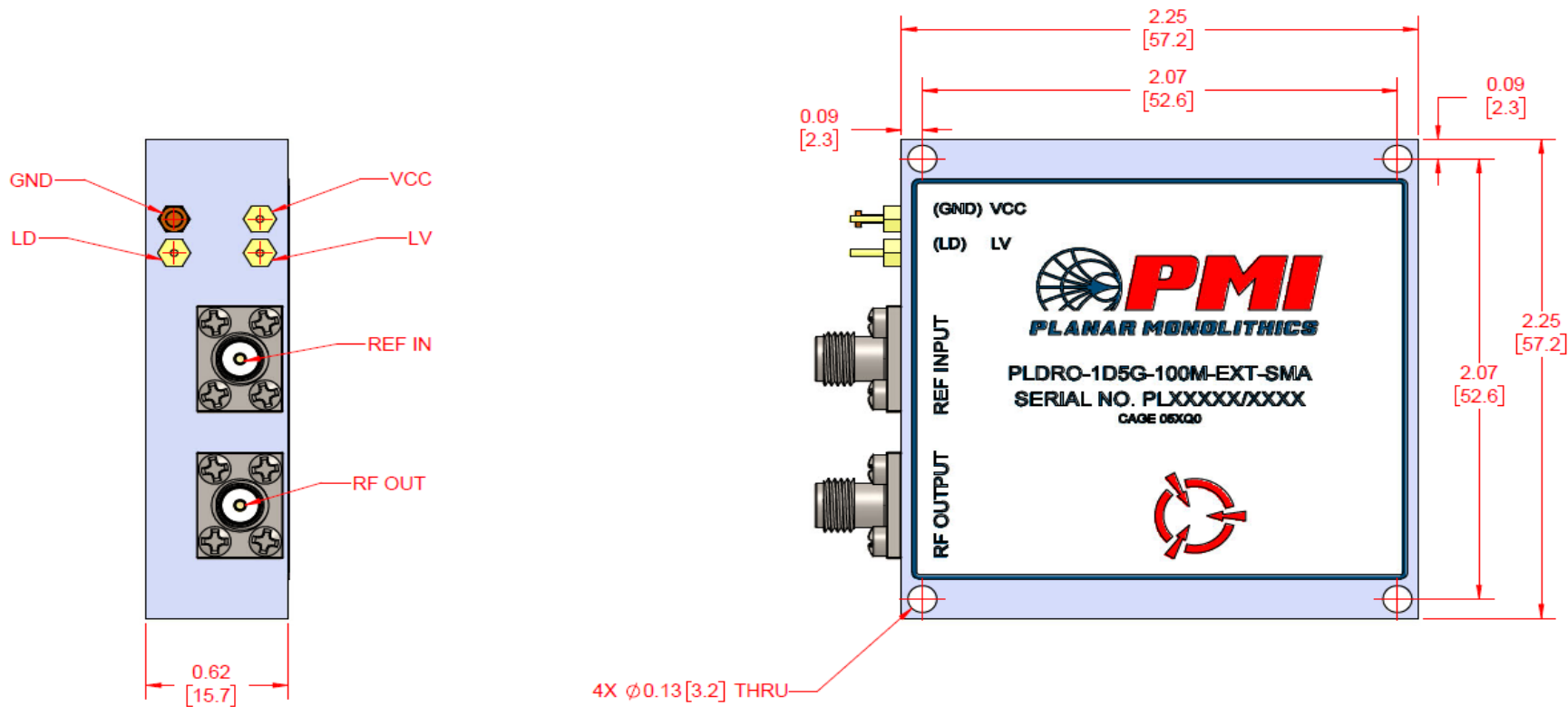
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/4/2026	



APPROVALS		DATE	TITLE	
DRAWN	VP	8/4/2026	OUTLINE	
REDRAWN			PLDRO-1D5G-100M-EXT-SMA	
TESTED			SIZE	REV.
			B 05XQ0	A1
			FRM NO.	DWG NO.
				27054860
			SCALE	SHEET
			2:1	1 OF 2

PMI CONFIDENTIAL AND PROPRIETARY



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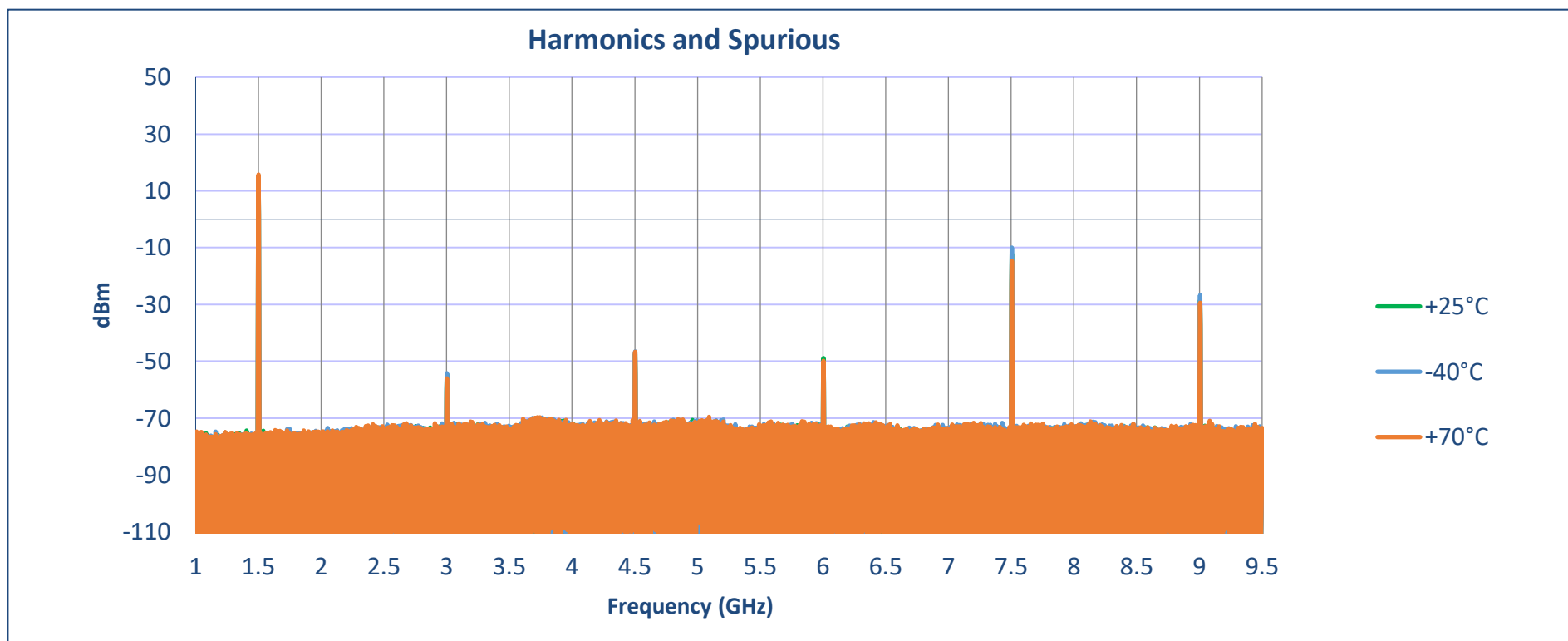
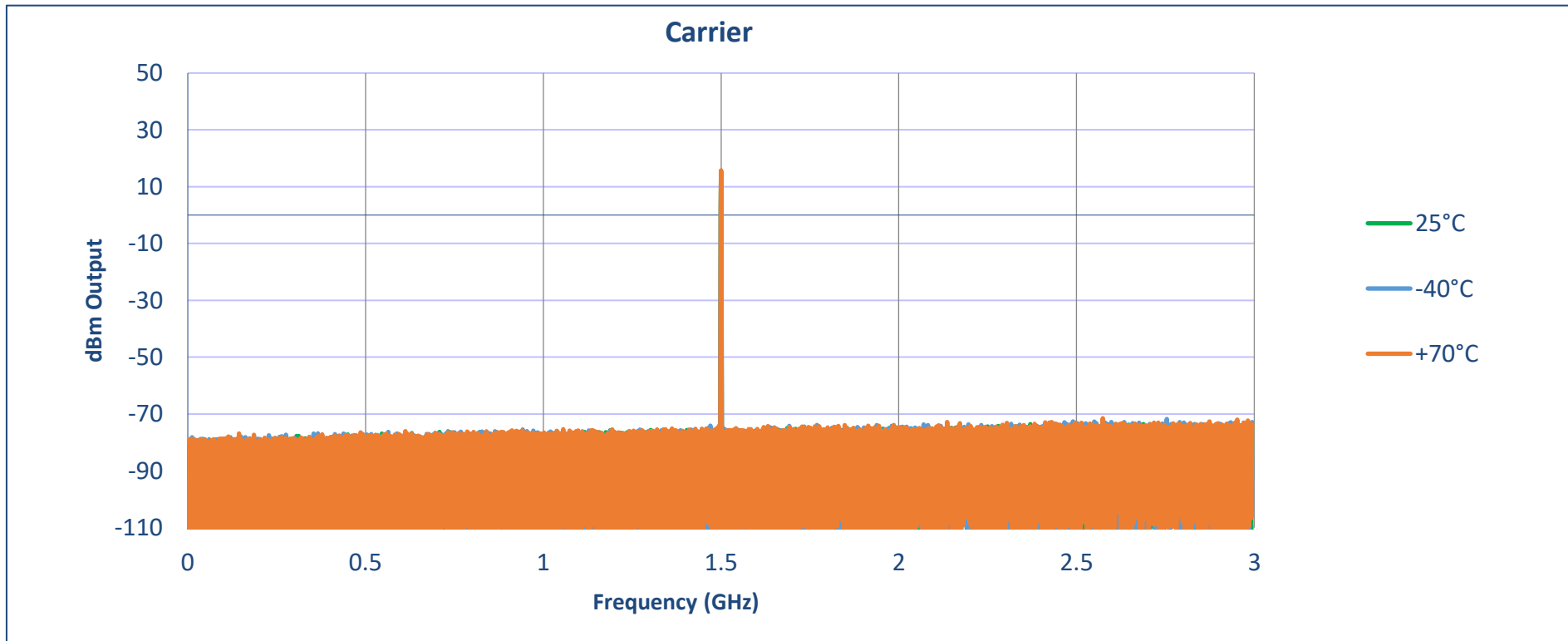
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			2:1	2 OF 2

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## TECHNICAL SPECIFICATIONS

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+70°C
1	Output Frequency	1.5 GHz	1.5 GHz		
2	Output Level	+13 dBm MIN.	14.7 dBm	15.3 dBm	15.7 dBm
3	Spurious	-70 dBc MAX.	<-70 dBc (See Graph)	<-70 dBc (See Graph)	<-70 dBc (See Graph)
4	Harmonics	-20 dBc MAX.	-24.7 dBc (See Graph)	-27.4 dBc (See Graph)	-30.3 dBc (See Graph)
5	Phase Noise	-43 dBc/Hz MAX. @ 100 Hz -126 dBc/Hz MAX. @ 1 kHz -131 dBc/Hz MAX. @ 10 kHz -131 dBc/Hz MAX. @ 100 kHz -140 dBc/Hz MAX. @ 1 MHz	<p style="text-align: center;">At 25°C</p> -115.25 dBc/Hz @ 100 Hz -132.45 dBc/Hz @ 1 kHz -137.92 dBc/Hz @ 10 kHz -138.49 dBc/Hz @ 100 kHz -144.24 dBc/Hz @ 1 MHz		
6	DC Supply Voltage	+15V @ 300 mA MAX.	15V @ 190 mA	15V @ 190 mA	15V @ 190 mA
7	Lock Detector	TTL HIGH In Lock	TTL HIGH In Lock		

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## Phase Noise Curve

