

**TYPICAL CHARACTERISTICS
ON
PDRO-17520M-13DBM-SFF**

PMI MODEL NUMBER PDRO-17520M-13DBM-SFF IS A PDRO WITH AN OUTPUT FREQUENCY OF 17520 MHz AND A MINIMUM OUTPUT LEVEL OF +13 dBm



REPORTED BY: V. PRATAP
TESTED BY: E. KRETZ
DATE: 8/19/2025

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PRODUCT FEATURE

DESCRIPTION:

PMI MODEL NUMBER PDRO-17520M-13DBM-SFF IS A PDRO WITH AN OUTPUT FREQUENCY OF 17520 MHz AND A MINIMUM OUTPUT LEVEL OF +13 dBm.

SPECIFICATIONS:

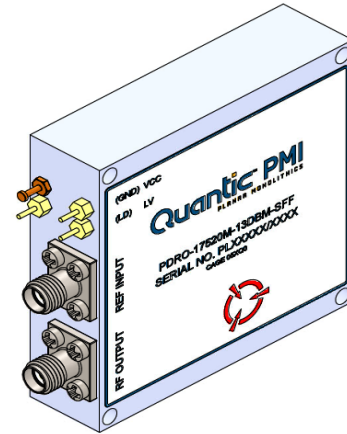
- OUTPUT FREQUENCY: 17520 MHz
- REFERENCE FREQUENCY: 240 MHz (SINEWAVE)
- INPUT LEVEL: +3 TO +13 dBm
- OUTPUT LEVEL: +13 dBm MIN.
- SPURIOUS: -70 dBc MAX
- HARMONICS: -20 dBc MAX
- SUB HARMONICS: -60 dBc MAX
- LOAD VSWR: 1.5:1 MAX
- PHASE NOISE: -80 dBc/Hz MAX @ 100Hz
-101 dBc/Hz MAX @ 1 kHz
-108 dBc/Hz MAX @ 10 kHz
-108 dBc/Hz MAX @ 100 kHz
-130 dBc/Hz MAX @ 1 MHz
-150 dBc/Hz MAX @ 10 kHz
-160 dBc/Hz MAX @ 100 kHz
(REF INPUT 8 dBm MIN @ 25°C)
- REFERENCE PHASE NOISE: -160 dBc/Hz MAX @ 100 kHz
- FREQUENCY STABILITY: SAME AS REFERENCE
- SUPPLY VOLTAGE: +12V ±10%
- CURRENT: 300 mA MAX
- LOCK DETECTOR: TTL HIGH - LOCK
- CONNECTOR: REF CONNECTOR: SMA(F)
RF CONNECTOR: SMA(F)
POWER: THRU CAPACITOR
- FINISH: NICKEL PLATED
- DIMENSIONS: 2.25" X 2.25" X 0.62"

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +70°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

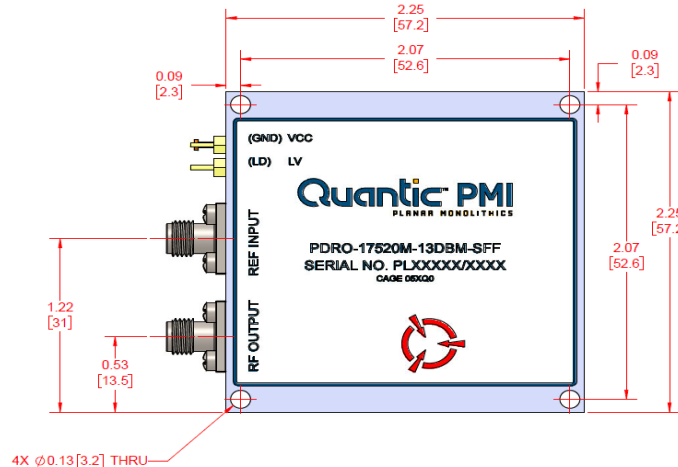
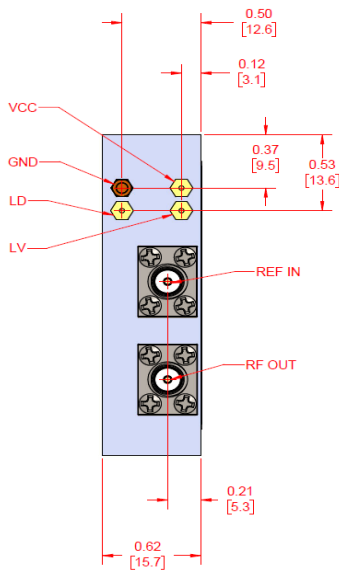
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

DATE	REV	DESCRIPTION	DATE	APPROVED
01/20/2018	A1	ORIGINAL RELEASE		



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGN	VP	01/20/2018	PDRO-17520M-13DBM-SFF	
TESTING				
ISSUED				
REV	FORM	REV		
B	05XGQ	27052220	A1	
SCALE 2:1			SHEET 1 OF 2	



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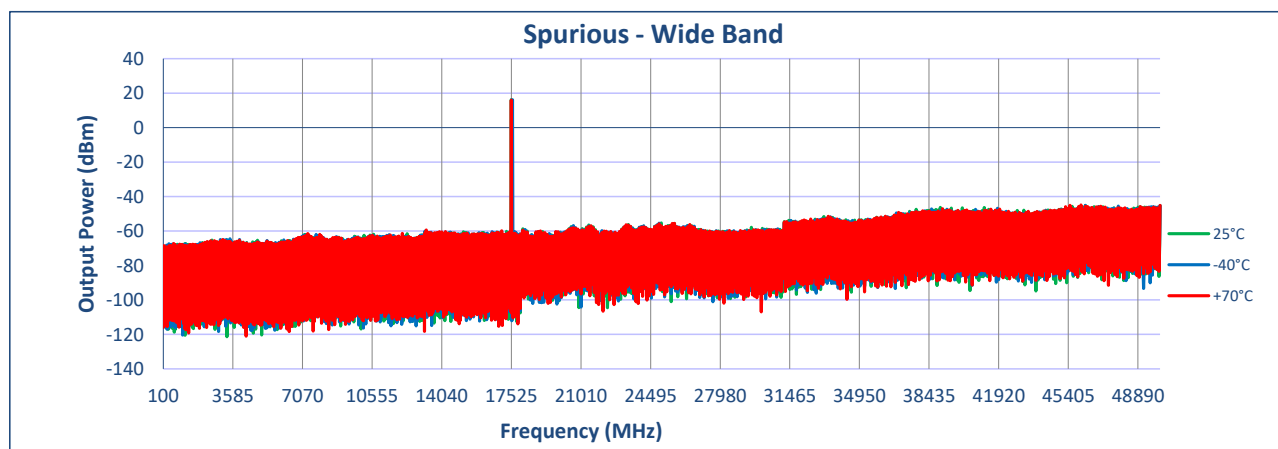
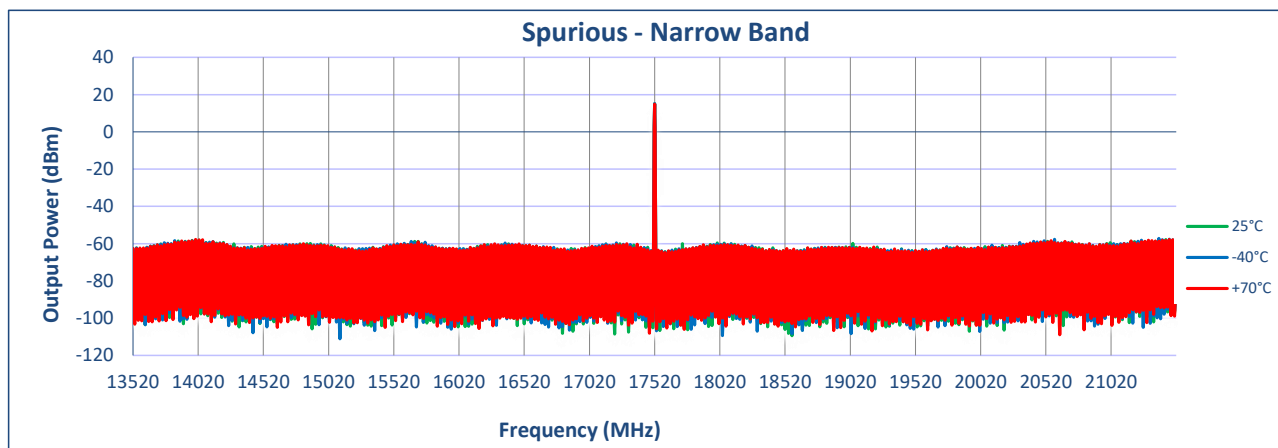
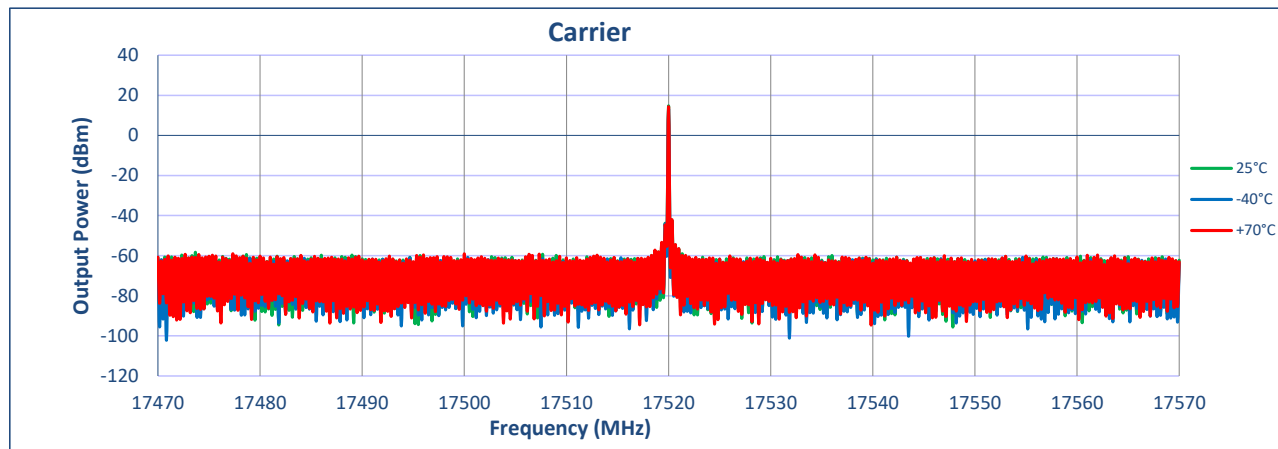
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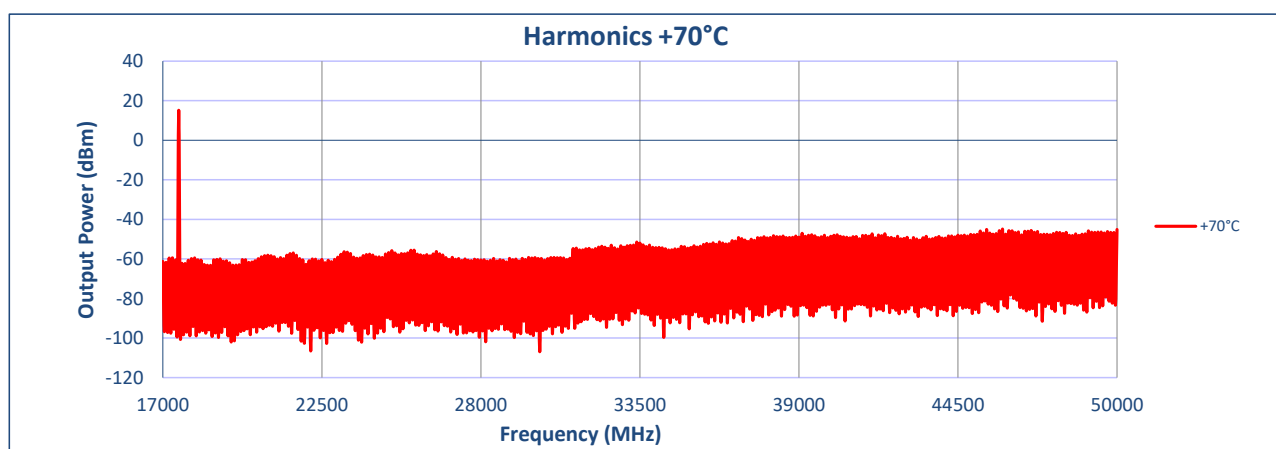
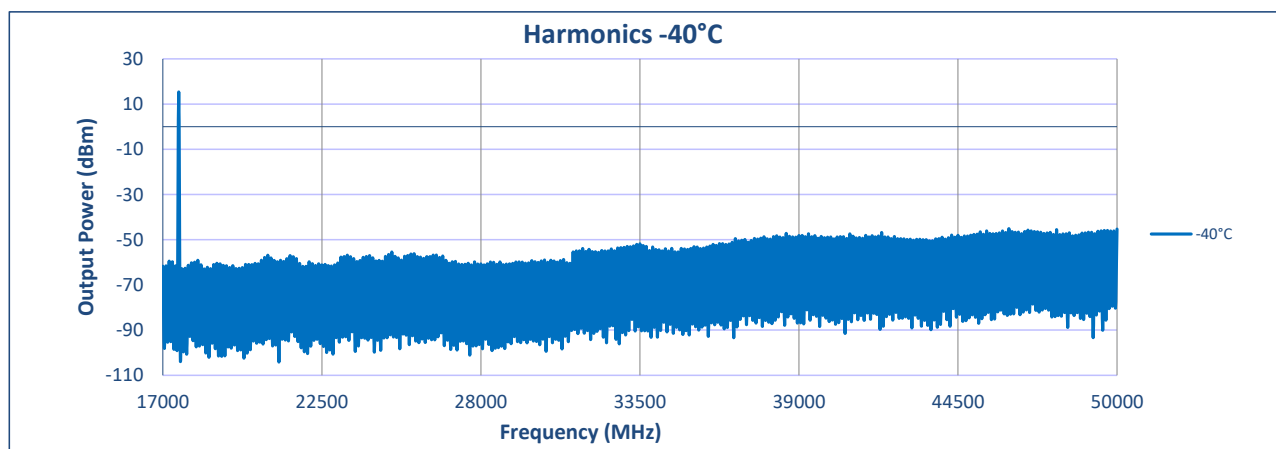
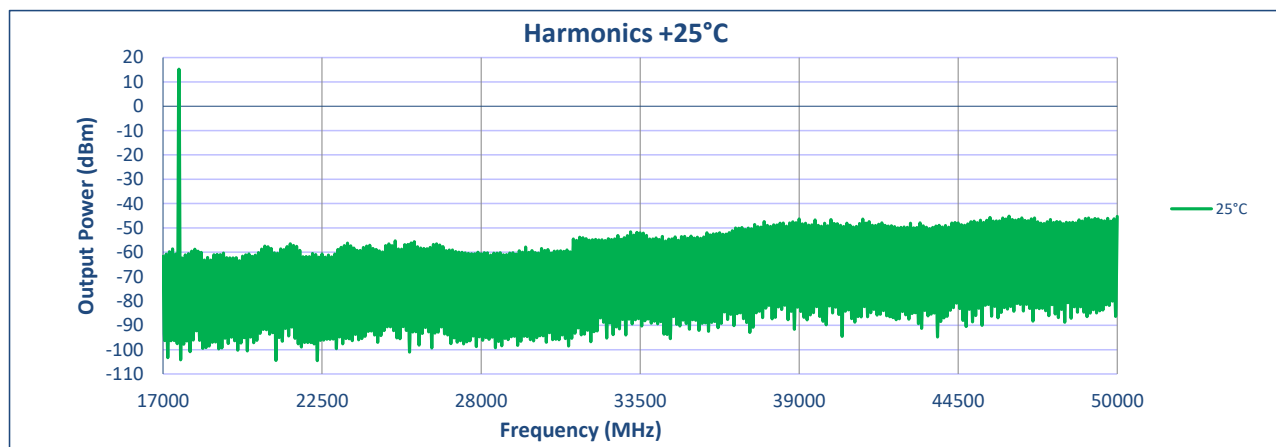
TECHNICAL SPECIFICATIONS

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+70°C
1	Output Frequency	17520 MHz	17520 MHz	17520 MHz	17520 MHz
2	Output Level	+13 dBm MIN.	14.6 dBm	14.7 dBm	14.3 dBm
3	Spurious	-70 dBc MAX.	<-70 dBc (See Graph)	<-70 dBc (See Graph)	<-70 dBc (See Graph)
4	Harmonics	-20 dBc MAX.	<-20 dBc (See Graph)	<-20 dBc (See Graph)	<-20 dBc (See Graph)
5	Sub Harmonics	-60 dBc MAX.	<-60 dBc (See Graph)	<-60 dBc (See Graph)	<-60 dBc (See Graph)
6	Phase Noise (REF Input 8 dBm MAX. @ 25°C)	-80 dBc/Hz MAX. @ 100Hz -101 dBc/Hz MAX. @ 1 kHz -108 dBc/Hz MAX. @ 10 kHz -108 dBc/Hz MAX. @ 100 kHz -130 dBc/Hz MAX. @ 1 MHz	-91 dBc/Hz @ 100Hz -108.5 dBc/Hz @ 1 kHz -115.61 dBc/Hz @ 10 kHz -115.45 dBc/Hz @ 100 kHz -131.98 dBc/Hz @ 1 MHz		
7	DC Supply Voltage	+12V ± 10% @ 300 mA MAX.	+12V @ 256 mA		
8	Lock Detector	TTL HIGH In Lock	TTL HIGH In Lock		

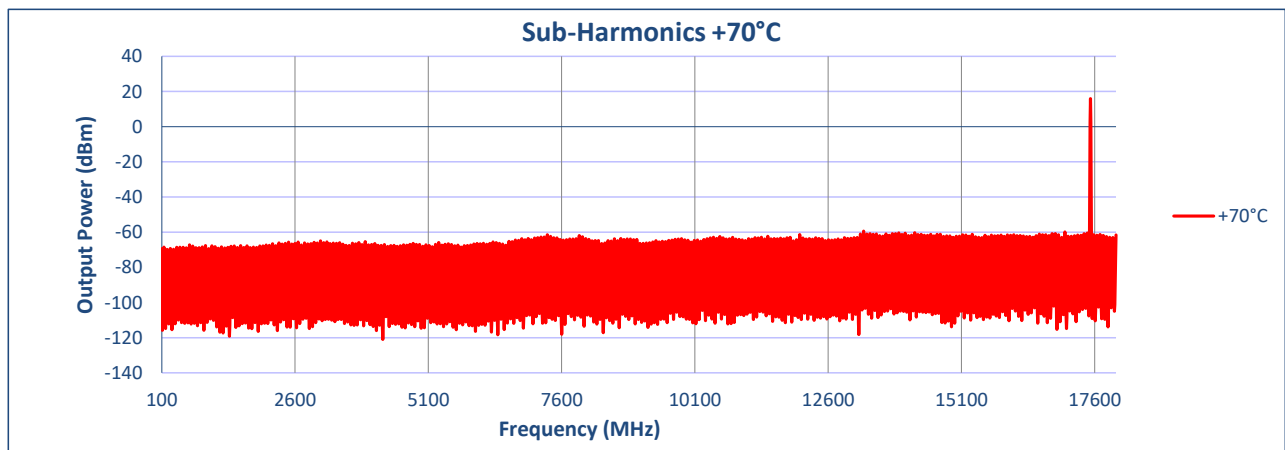
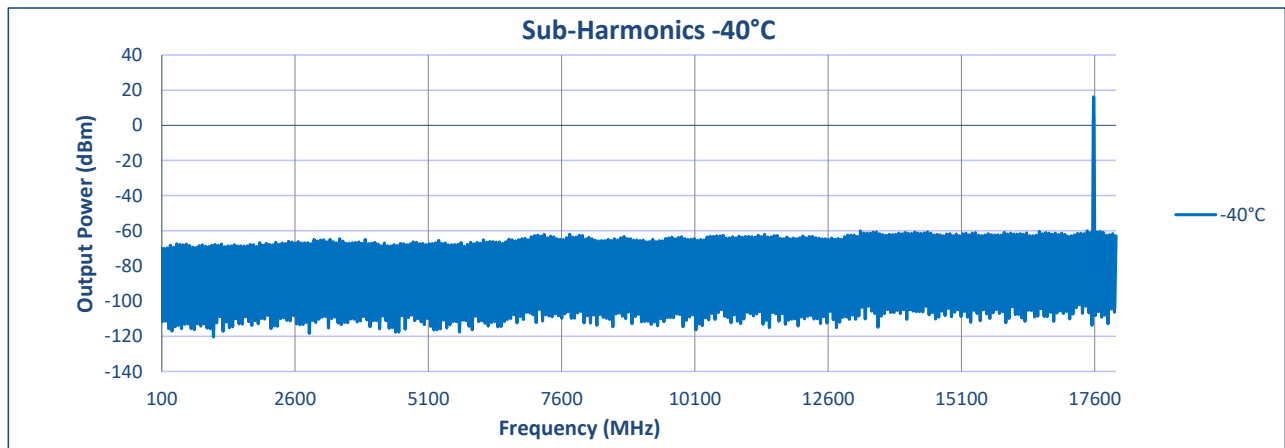
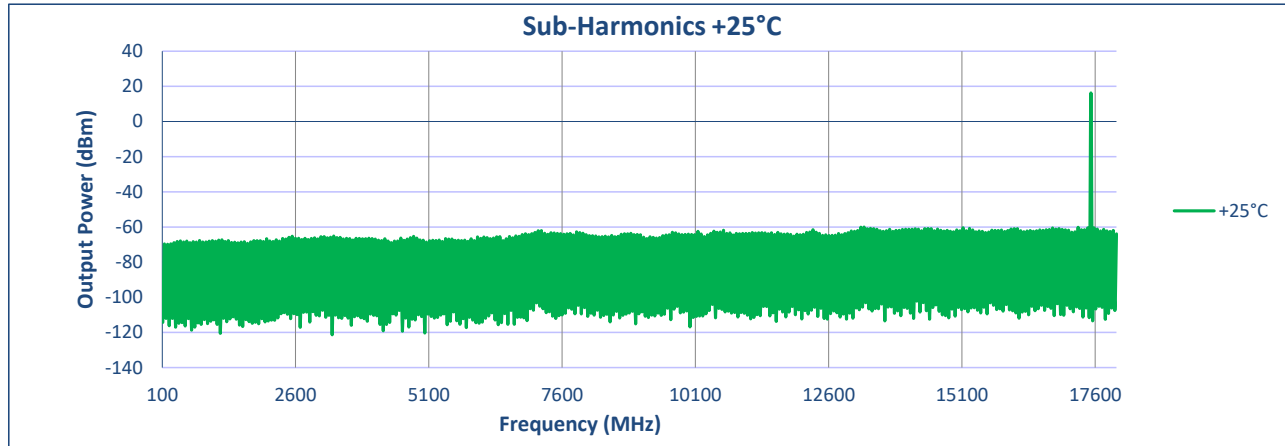
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Phase Noise Curve

