Typical Characteristics On PLO-840M-150-15DBM-12V-SF

PMI MODEL NUMBER PLO-840M-150-15DBM-12V-SF IS AN 840 MHz. PHASE LOCKED OSCILLATOR. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING 0.6" IN HEIGHT.

January 24, 2019

Designed By: PMI Engineering

Tested By: E. Kretz

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
email: sales@pmi-rf.com

Typical Characteristics On PLO-840M-150-15DBM-12V-SF

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	[illegible]	

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PLO-840M-150-15DBM-12V-SF IS AN 840 MHz PHASE-LOCKED OSCILLATOR. THIS MODEL IS OFFERED IN A SLIM LINE HOUSING MEASURING ON 0.6" HEIGHT.

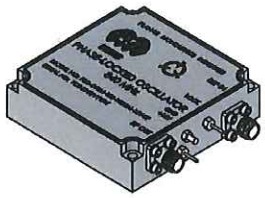
SPECIFICATIONS:

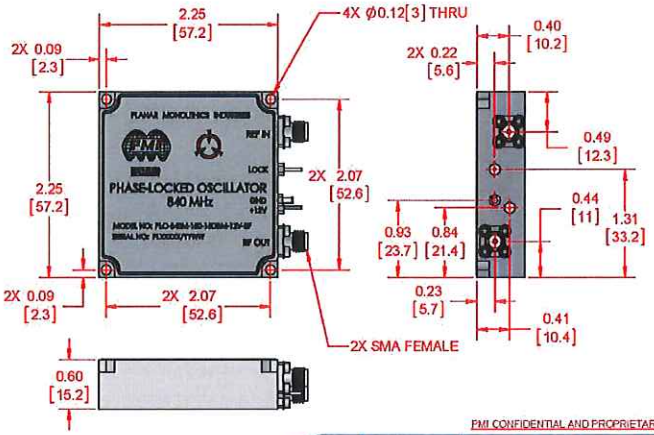
- FREQUENCY:..... 840 MHz
- STABILITY:..... SAME AS REFERENCE
- REFERENCE:..... 10 MHz, POWER = 3dBm +/- 3 dB
- REF. INPUT IMPEDANCE.:.....50 OHMS
- REF. PHASE NOISE:..... <-140 dBc/Hz @ 1 KHz
  <-150 dBc/Hz @ 10 KHz
- OUTPUT POWER:.....+20 dBm MINIMUM
- HARMONICS:..... <-25 dBc
- SUB HARMONICS:..... <-60 dBc
- SPURS:..... <-80 dBc
- PHASE NOISE:.....<-120 dBc/Hz @ 10 KHz TYP, <-115 dBc/Hz MAX
  <-145 dBc/Hz @ 100 KHz TYP, <-140 dBc/Hz MAX
- VCC:.....+12V +/- 0.5V @ 200 mA TYP, 300 mA MAX
- LOCK DETECT:.....HIGH (+3.3V) IS LOCK
- CONNECTORS:.....2 SMA FEMALE
- SIZE:..... 2.25" X 2.25" X 0.60"
- FINISH:..... NICKEL PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
  -40°C TO +125°C (STORAGE)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION





PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

APPROVALS	DATE
M. HANKEN	[illegible]

TITLE: OUTLINE PLO-840M-150-15DBM-12V-SF

SIZE	FSCM NO.	DWG NO.	REV
B	05XQ0	27035760	A1

SCALE 1:1 SHEET 1 OF 1

NOTE: CHANGES TO DRAWING OR SPECIFICATIONS MUST BE APPROVED BY END USER.

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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency:	840 MHz	**840 MHz**	
2	Output Power:	+20 dBm Min.	**21.8 dBm**	
3	Harmonics:	<-25 dBc	**-55 dBc**	
4	Sub Harmonics:	<-60 dBc	**-65 dBc**	
5	Spurs:	<-80 dBc	**-86 dBc**	
6	Phase Noise:	<-120 dBc/Hz @ 10 KHz TYP <-115 dBc/Hz MAX <-145 dBc/Hz @ 100 KHz TYP <-140 dBc/Hz MAX	**See Plots**	
7	DC Supply:	+12 VDC +/- 0.5 @ 200 mA TYP, 300 mA MAX	**294 mA**	
8	Lock Detect:	+3.3 V = LOCK	**Pass**	

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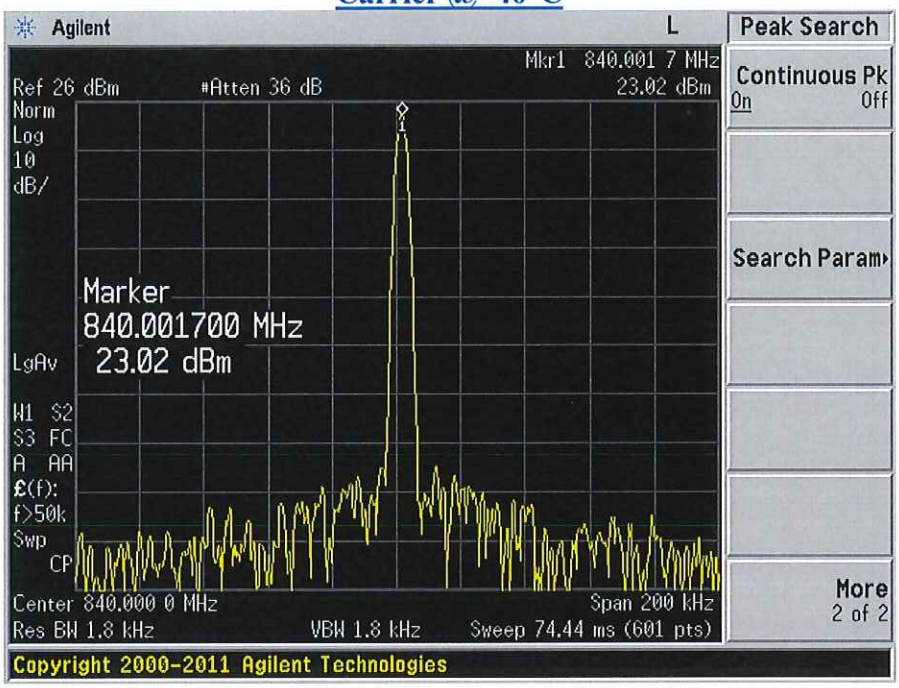
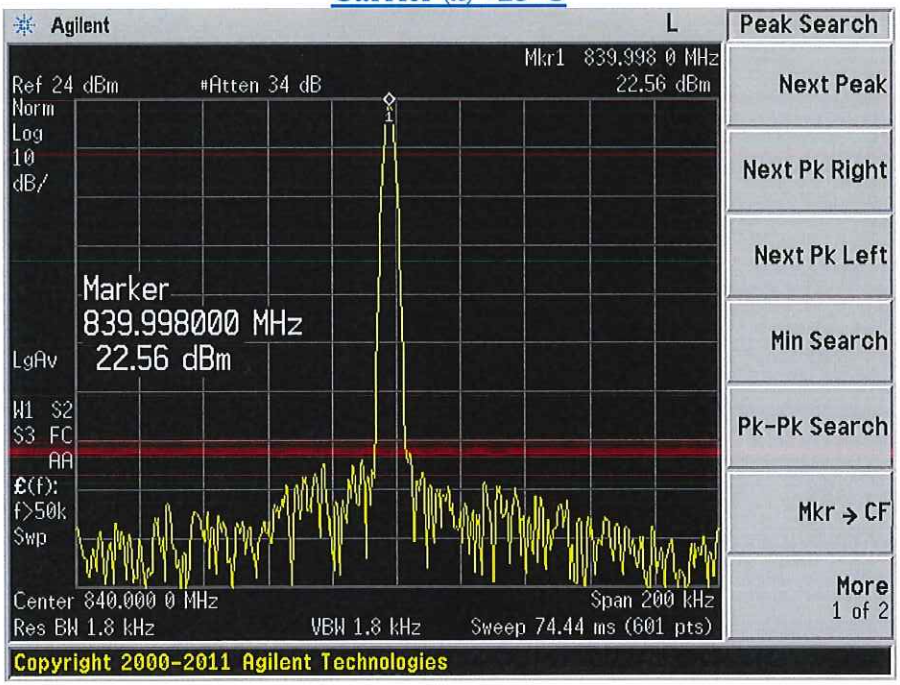
Carrier @ -40°C



Carrier @ +25°C



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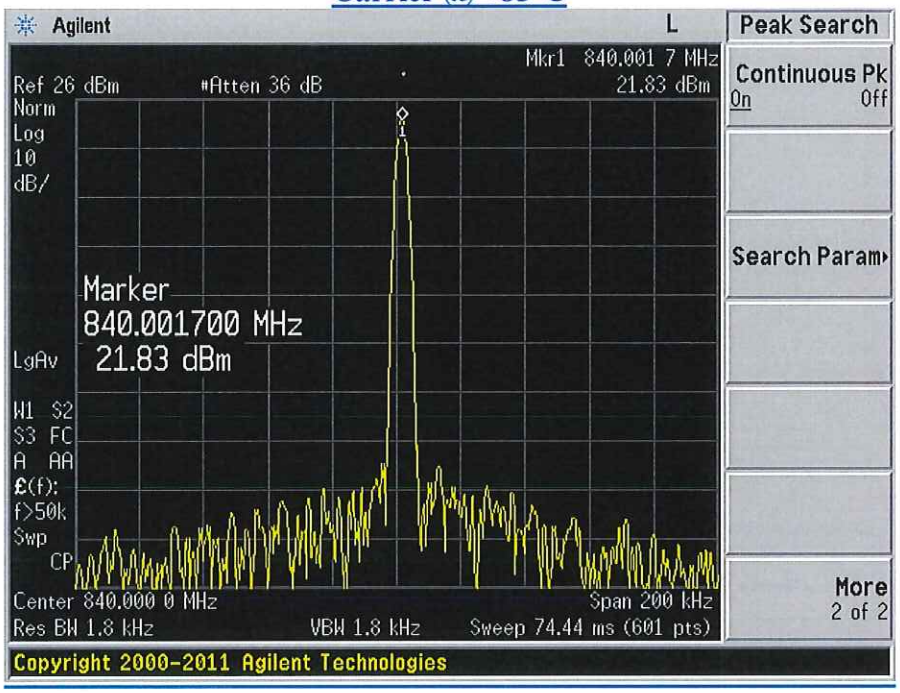
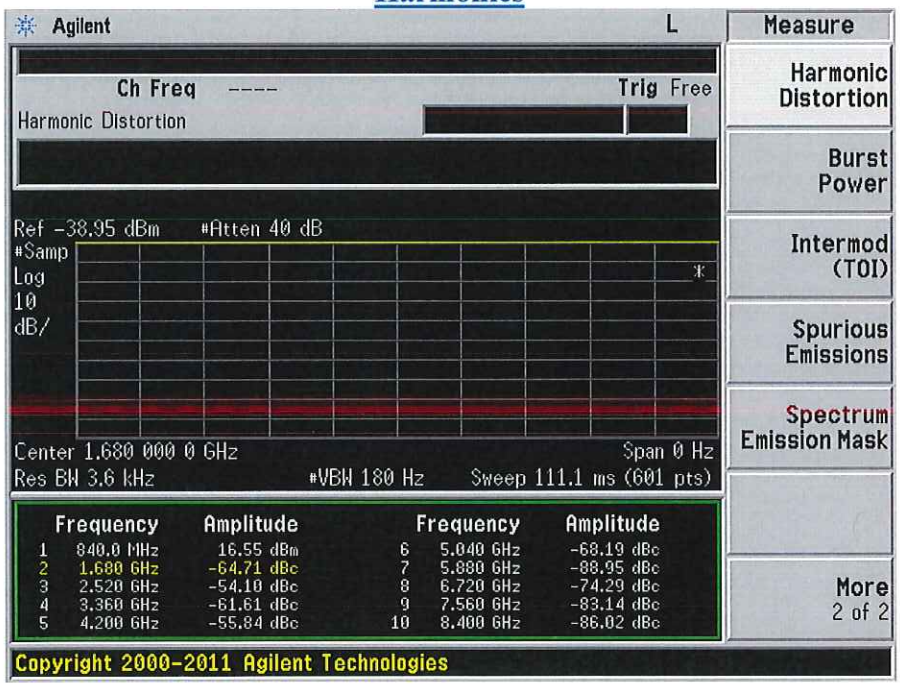
Typical Characteristics On PLO-840M-150-15DBM-12V-SF

Carrier @ +85°C



Harmonics



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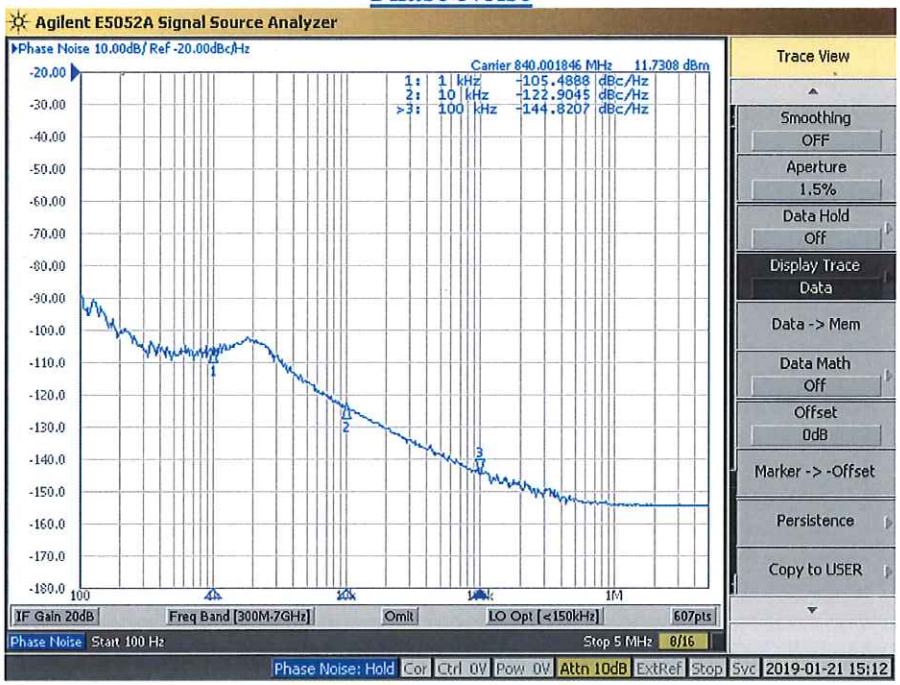
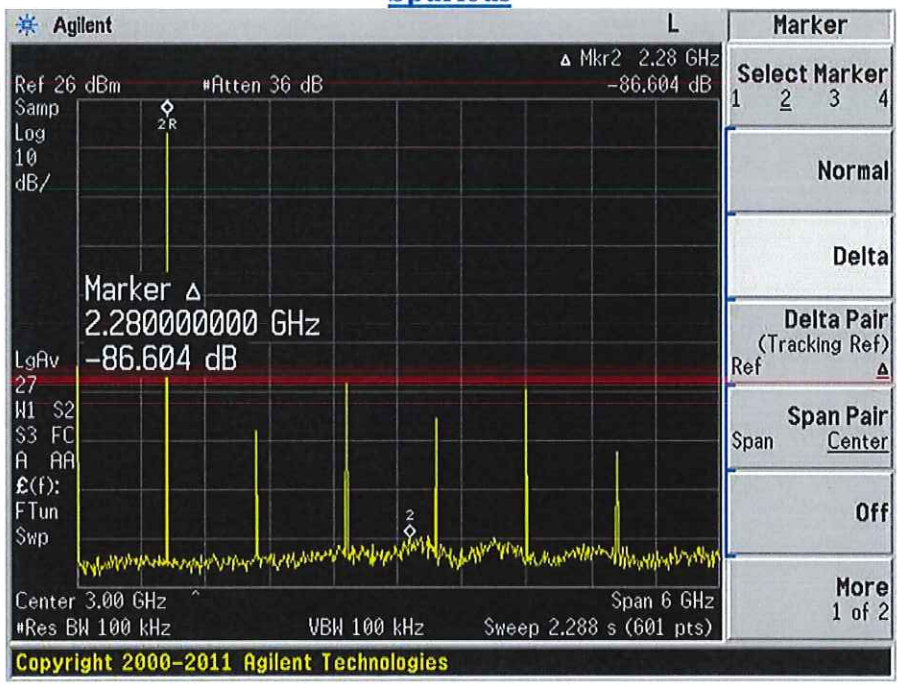
Typical Characteristics On PLO-840M-150-15DBM-12V-SF

Phase Noise



Spurious



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