



**SUMMARY TEST DATA  
ON  
PEC2-2G18G-80DB-21DBM-LM-SFF**

PL21567/1735

Customer: \_\_\_\_\_ Tested By: S. Palacio / A. Lopez  
 SO No: \_\_\_\_\_ Temperature: +25°C  
 Model No: PEC2-2G18G-80DB-21DBM-LM-SFF Date: 09/02/17  
 Serial No: PL21567/1735 Drawing No: 26924441 Rev: A1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2.0 GHz to 18.0 GHz	2.0 GHz to 18.0 GHz See Plots	PMI QA 2
2	Input Power:	-55 dBm to +10 dBm CW Typical	-55 to +10 dBm See Plots	
3	Saturated Output Power:	+21 dBm to 25 dBm Nominal	+22.44 to +25.93 dBm See Plots	
4	Output Power Variation:	+/-2.0 dBm Max. over operating temperature range	Pass	
5	OP1dB:	4 dBm below Psat typical	+18 dBm	
6	2 <sup>nd</sup> Harmonic Rejection:	-8 dBc @ Psat	-18.42 dBc	
7	3 <sup>rd</sup> Harmonic Rejection:	-9 dBc @ Psat	-13.08 dBc	
8	3 <sup>rd</sup> Order Intercept Point:	35 dBm – Design Goal	+30.55 dBm @ 2 GHz +28.20 dBm @ 18 GHz See Typical Characteristics	
9	VSWR Input/Output:	2.0:1 Max	1.77:1 See Plots	
10	Maximum RF Input Power:	+17 dBm CW	Pass	
11	DC Supply:	+15VDC* @ 700mA Max	+15VDC @ 670 mA	PMI QA 2

\*Including Reverse Polarity Protection and over voltage protection up to +/-25VDC

QA/QC Approval:  PMI QA 2 Date: 10/23/17

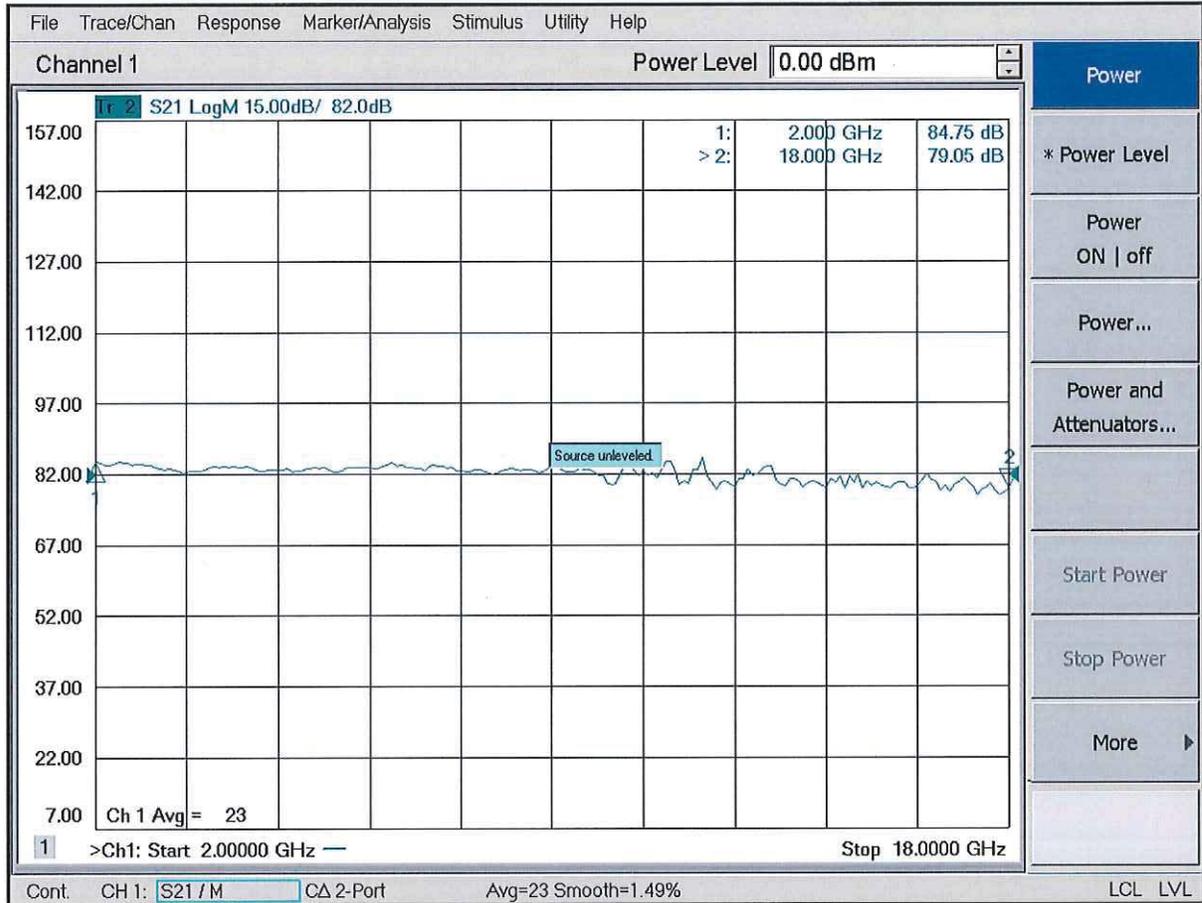
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



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Gain





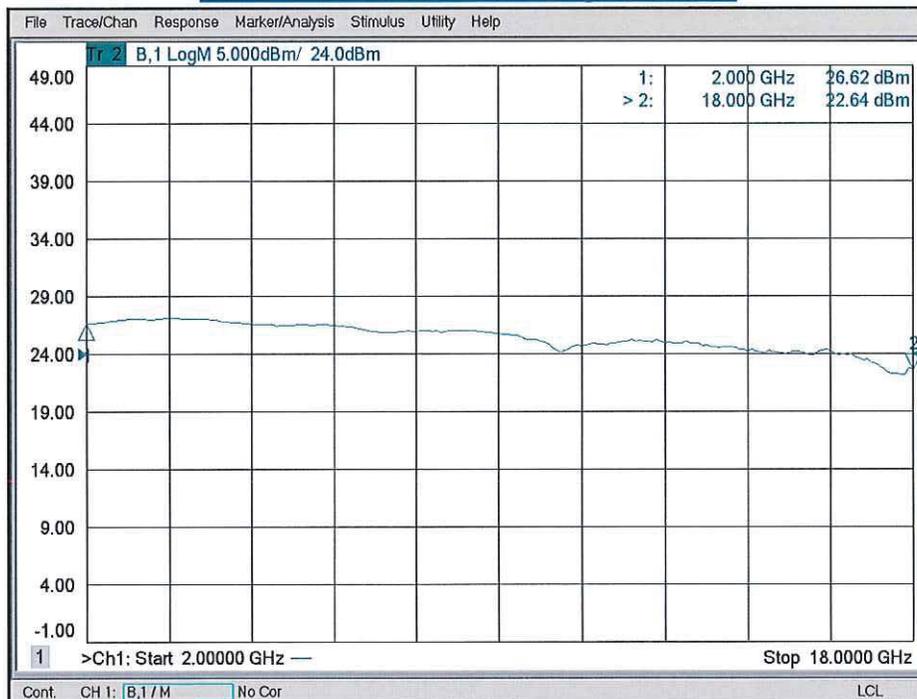
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**Saturated Output Power @ -55 dBm**



**Saturated Output Power @ -40 dBm**

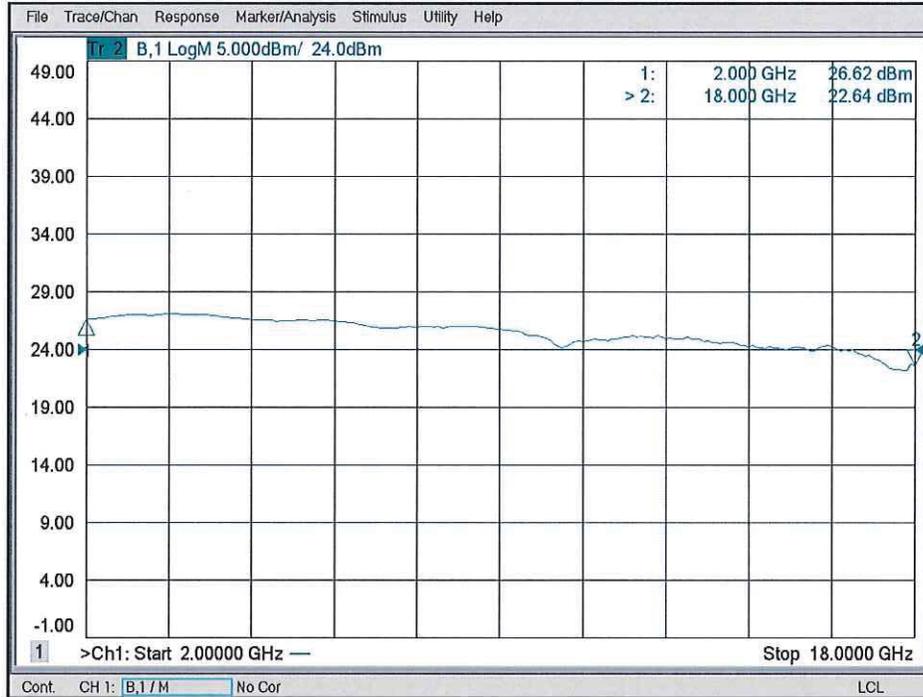




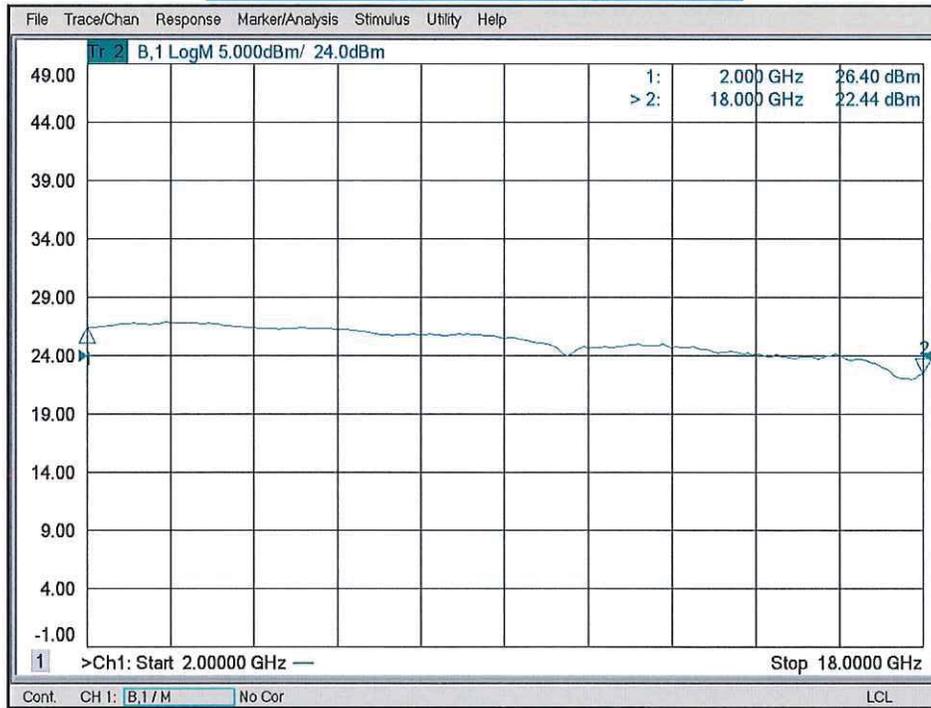
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**Saturated Output Power @ -30 dBm**



**Saturated Output Power @ -20 dBm**

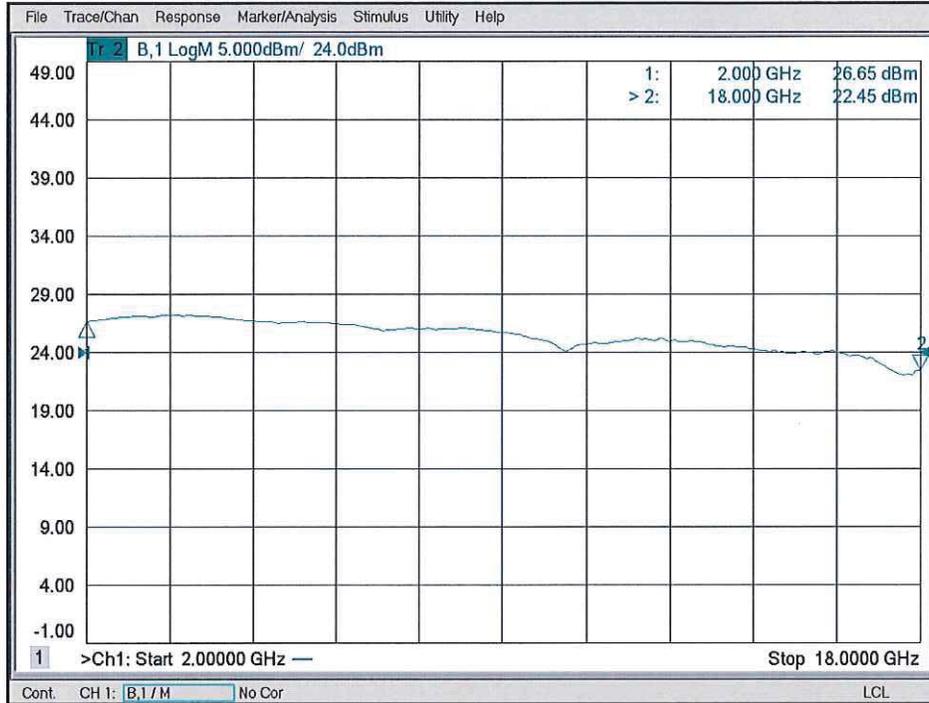




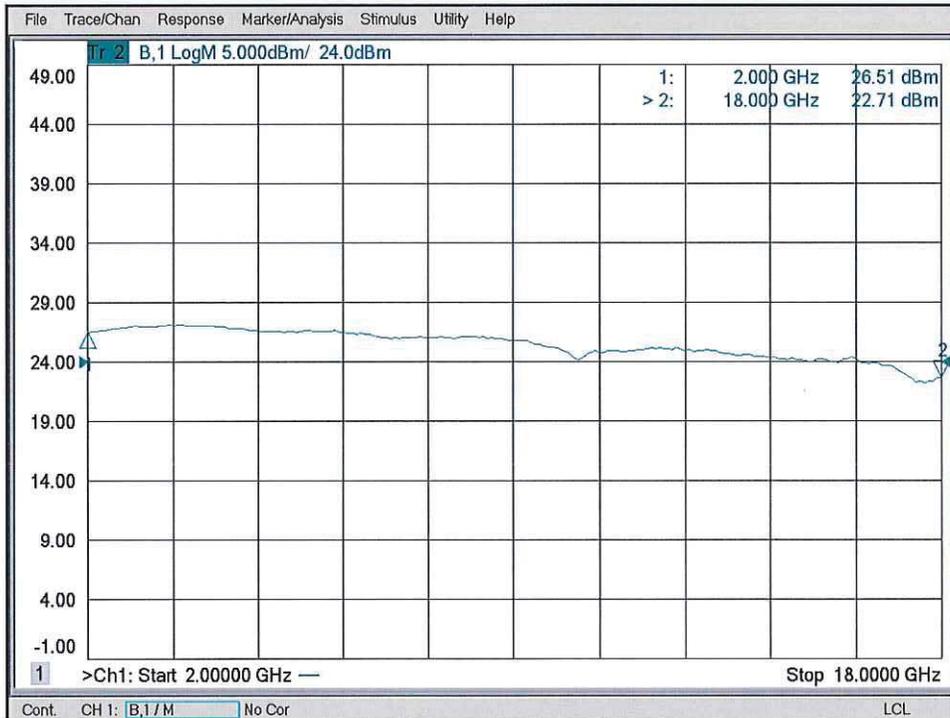
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**Saturated Output Power @ -10 dBm**



**Saturated Output Power @ 0 dBm**





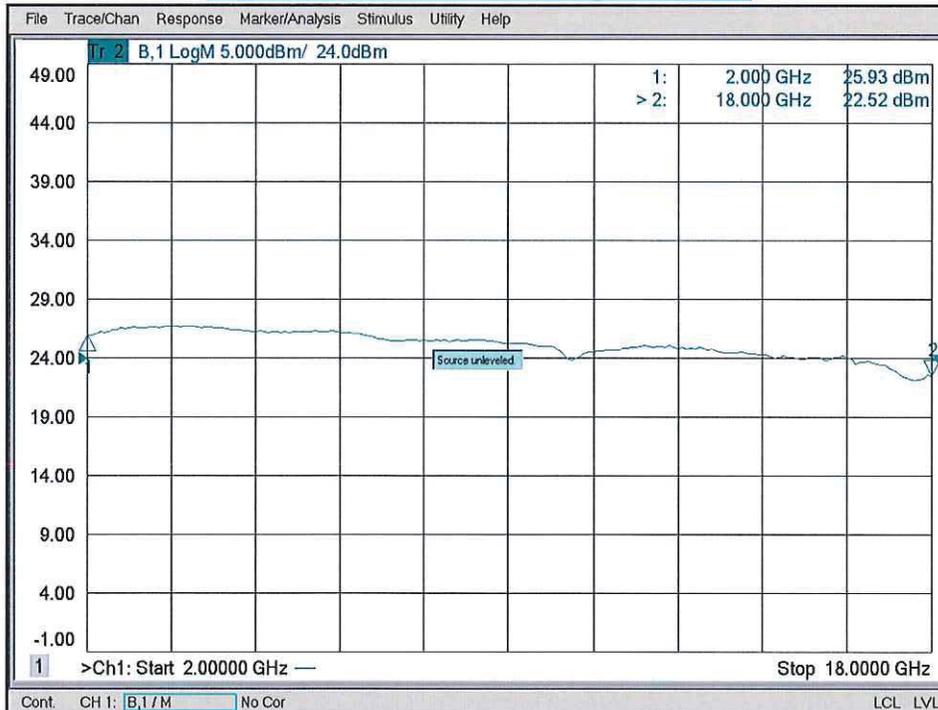
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**Saturated Output Power @ +5 dBm**



**Saturated Output Power @ +10 dBm**





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**Input VSWR**



**Output VSWR**



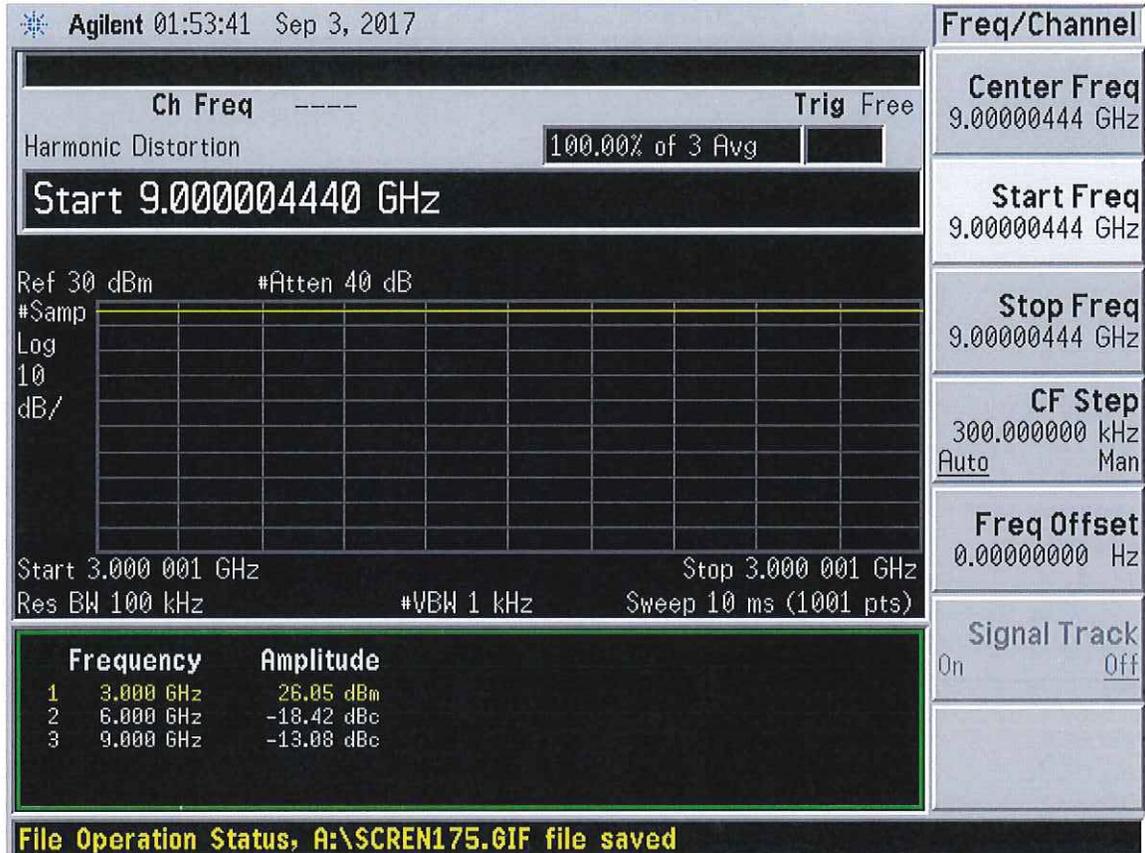
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**SUMMARY TEST DATA  
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**3 GHz (Fundamental)  
2<sup>nd</sup> & 3<sup>rd</sup> Harmonic Rejection**



2<sup>nd</sup> Harmonic = 18.42 dBc  
3<sup>rd</sup> Harmonic = 13.08 dBc