



**Planar Monolithics Industries, Inc.**  
**RF & Microwave Components and Modules to 50GHz**  
**ISO9001:2008 Certified**

**East Coast Operations**  
7311-F Grove Road  
Frederick, MD 21704 USA

**West Coast Operations**  
4921 Robert J. Mathews Pkwy, Suite 1  
El Dorado Hills, CA 95762 USA

Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com) Web: [www.pmi-rf.com](http://www.pmi-rf.com)

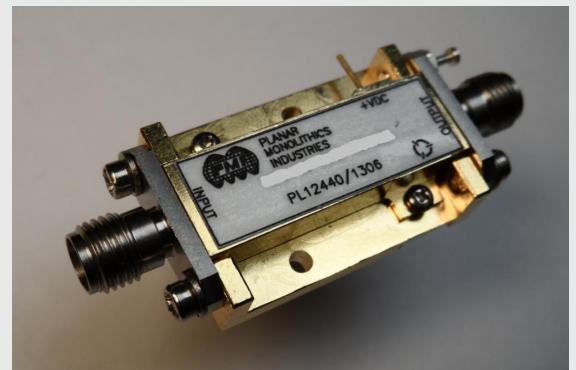


**Presenting...**  
**New Product Releases from**  
**Planar Monolithics Industries, Inc.**  
**April 17, 2020**

**1.0 PMI Model No. PBB-15-218-20-LCA, 2.0 to 18.0 GHz Low Noise Amplifier**

PMI Model No. PBB-15-218-20-LCA is a Low Noise Amplifier that operates over the 2.0 to 18.0 GHz frequency range. It has a typical noise figure of 3 dB and a typical gain of +15 dB. This model is outfitted with SMA female connectors in a housing measuring 1.08" x 0.71" x 0.29".

- Frequency Range: 2.0 to 18.0 GHz
- Gain: +15 dB Typ.
- Gain Flatness:  $\pm 2.0$  dB Typ. - **Measured  $\pm 1.39$  dB**
- Noise Figure: 3.0 dB Typ.
- OP1dB: 18 dBm Min., 20 dBm Typ.
- VSWR In/Out: 2.0:1 Max.
- DC Voltage Supply: +12 VDC
- DC Current Draw: 180 mA Typ.



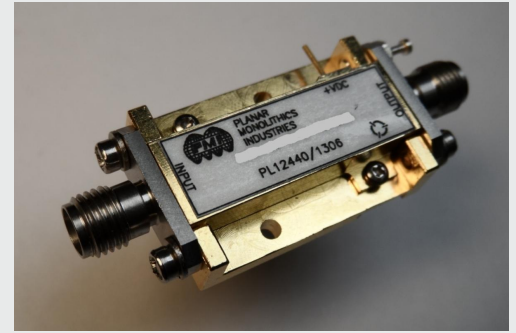
**PMI Website Link,**

<https://www.pmi-rf.com/product-details/pbb-15-218-20-lca>

## 2.0 PMI Model No. PBB-15-220-12-LCA, 2.0 to 20.0 GHz Low Noise Amplifier

PMI Model No. PBB-15-220-12-LCA is a Low Noise Amplifier that operates over the 2.0 to 20.0 GHz frequency range. It has a typical noise figure of 3 dB and a typical gain of +15 dB. This model is outfitted with SMA female connectors in a housing measuring 1.08" x 0.71" x 0.29".

- Frequency Range: 2.0 to 20.0 GHz
- Gain: +15 dB Typ.
- Gain Flatness:  $\pm 1.75$  dB Typ. - Measured  $\pm 0.87$  dB
- Noise Figure: 3.0 dB Typ.
- OP1dB: +12 dBm Typ.
- VSWR In/Out: 2.0:1 Max.
- DC Supply: +12 VDC @ 75 mA Typ.



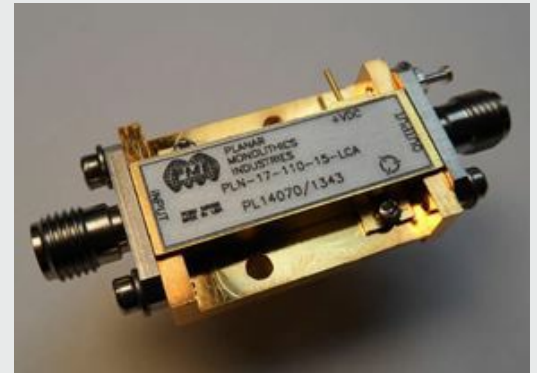
### PMI Website Link,

<https://www.pmi-rf.com/product-details/pbb-15-220-12-lca>

## 3.0 PMI Model No. PLN-17-110-15-LCA, 1.0 to 10.0 GHz Low Noise Amplifier

PMI Model No. PLN-17-110-15-LCA is a Low Noise Amplifier that operates over the 1.0 to 10.0 GHz frequency range. It has a typical noise figure of 2 dB and a typical gain of 17 dB. This model is outfitted with SMA female connectors in a housing measuring 1.08" x 0.71" x 0.29".

- Frequency Range: 1.0 to 10.0 GHz
- Gain: 17 dB Typ.
- Gain Flatness:  $\pm 1.5$  dB Typ. - Measured  $\pm 0.59$  dB
- Noise Figure: 2.0 dB Typ.
- OP1dB: 15 dBm Typ.
- VSWR In/Out: 2.0:1 Typ.
- DC Voltage Supply: +12 to +15 VDC
- DC Current Draw: 65 mA Typ. - Measured 60 mA



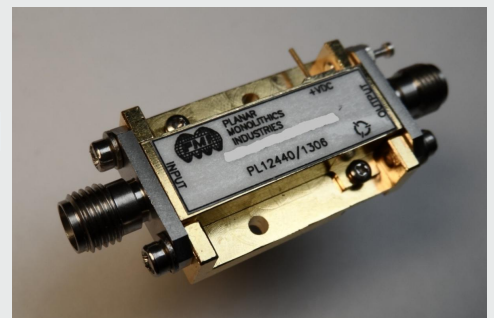
### PMI Website Link,

<https://www.pmi-rf.com/product-details/pln-17-110-15-lca>

## 4.0 PMI Model No. PLN-25-812-10-LCA, 8.0 to 12.0 GHz Low Noise Amplifier

PMI Model No. PLN-25-812-10-LCA is a 8.0 to 12.0 GHz Low Noise Amplifier. It has a typical noise figure of 1.8 dB and a typical gain of 25 dB. It has SMA female connectors in a housing measured at 1.08" x 0.71" x 0.29".

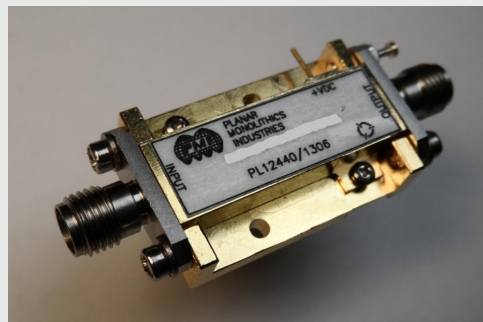
- Frequency Range: 8.0 to 12.0 GHz
- Gain: +25 dB Typ. - Measured 25.7 dB
- Gain Flatness:  $\pm 1.0$  dB Typ. - Measured  $\pm 0.41$  dB
- Noise Figure: 1.8 dB Typ.
- OP1dB: +10 dBm Typ.
- VSWR In/Out: 2.0:1 Typ. - Measured 1.34:1/1.36:1
- DC Voltage Supply: +12 VDC
- DC Current Draw: 75 mA Typ. - Measured 72 mA



## **5.0 PMI Model No. PLN-32-68-2-LCA, 6.0 to 8.0 GHz Low Noise Amplifier**

PMI Model No. PLN-32-68-2-LCA is a Low Noise Amplifier that operates over the 6.0 to 8.0 GHz frequency range. It has a typical noise figure of 1 dB and a typical gain of 32 dB. This model is outfitted with SMA female connectors in a housing measuring 1.08" x 0.71" x 0.29".

- Frequency Range: 6.0 to 8.0 GHz
- Gain: 32 dB Typ.
- Gain Flatness:  $\pm 1.25$  dB Typ. - Measured  $\pm 0.27$  dB
- Noise Figure: 1.0 dB Typ.
- OP1dB: +2 dBm Typ.
- VSWR In/Out: 2.0:1 Max.
- DC Supply: +12 to +15 VDC @ 41 mA



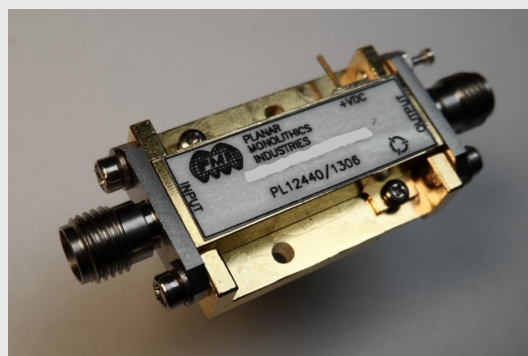
### **PMI Website Link,**

<https://www.pmi-rf.com/product-details/pln-32-68-2-lca>

## **6.0 PMI Model No. PLN-32-810-2-LCA, 8.0 to 10.0 GHz Low Noise Amplifier**

PMI Model No. PLN-32-810-2-LCA is a 8.0 to 10.0 GHz Low Noise Amplifier. It has a typical noise figure of 0.8 dB and a typical gain of 32 dB. The housing is measured at 1.08" x 0.71" x 0.29" and has SMA female connectors.

- Frequency Range: 8.0 to 10.0 GHz
- Gain: +32 dB Typ.
- Gain Flatness:  $\pm 1.25$  dB Typ. - Measured  $\pm 0.58$  dB
- Noise Figure: 0.8 dB Typ.
- OP1dB: +2 dBm Typ.
- OIP3: +10 dBm Typ.
- Max Input Power CW: +10 dBm
- VSWR In/Out: 2.0:1 Typ.
- DC Voltage Supply: +12 VDC
- DC Current Draw: 40 mA Typ. - Measured 29 mA



### **PMI Website Link,**

<https://www.pmi-rf.com/product-details/pln-32-810-2-lca>

## **7.0 PMI Model No. POB-15-818-20-LCA, 8.0 to 18.0 GHz Low Noise Amplifier**

PMI Model No. POB-15-818-20-LCA is a 8.0 to 18.0 GHz Low Noise Amplifier. It has a typical noise figure of 3 dB and a typical gain of 15 dB. The housing is measured at 1.08" x 0.71" x 0.29" and has SMA female connectors.

- Frequency Range: 8.0 to 18.0 GHz
- Gain: +15 dB Typ.
- Gain Flatness:  $\pm 1.75$  dB Typ. - Measured  $\pm 0.69$  dB
- Noise Figure: 3.0 dB Typ.
- OP1dB: +20 dBm Typ., 18 dBm Min. - Measured +21.6 dBm



- VSWR In/Out: 2.0:1 Max. - Measured 1.59:1/1.33:1
- DC Voltage Supply: +12 to +15 VDC Typ.
- DC Current Draw: 180 mA Typ.

**PMI Website Link,**

<https://www.pmi-rf.com/product-details/pob-15-818-20-lca>

**8.0 PMI Model No. POB-16-48-22-LCA, 4.0 to 8.0 GHz Low Noise Amplifier**

PMI Model No. POB-16-48-22-LCA is a 4.0 to 8.0 GHz Low Noise Amplifier. It has a typical noise figure of 3 dB and a typical gain of 16 dB. The unit is supplied in a housing measuring 1.08" x 0.71" x 0.29" and has SMA female connectors.



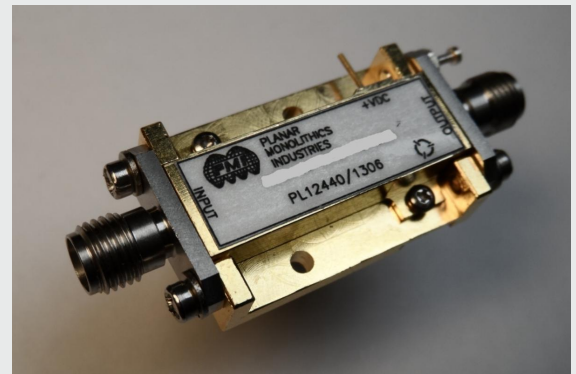
- Frequency Range: 4.0 to 8.0 GHz
- Gain: 16 dB Typ.
- Gain Flatness:  $\pm 1.0$  dB Typ. - Measured  $\pm 0.62$  dB
- Noise Figure: 3.0 dB Typ. - Measured 2.95 dB
- OP1dB: +20 dBm Min., +22 dBm Typ.
- VSWR In/Out: 2.0:1 Typ. - Measured 1.16:1/1.27:1
- DC Voltage Supply: +12 VDC
- DC Current Draw: 225 mA Typ.

**PMI Website Link,**

<https://www.pmi-rf.com/product-details/pob-16-48-22-lca>

**9.0 PMI Model No. POB-28-24-15-LCA, 2.0 to 4.0 GHz Low Noise Amplifier**

PMI Model No. POB-28-24-15-LCA is a Low Noise Amplifier that operates over the frequency 2.0 to 4.0 GHz. It has a typical noise figure of 3 dB and a typical gain of 28 dB. The housing is measured at 1.08" x 0.71" x 0.29" and has SMA female connectors.



- Frequency Range: 2.0 to 4.0 GHz
- Gain: 28 dB Typ.
- Gain Flatness:  $\pm 1.75$  dB Typ. - Measured  $\pm 0.21$  dB
- Noise Figure: 3.0 dB Typ.
- OP1dB: +15 dBm Typ.
- VSWR In/Out: 2.0:1 Max.
- DC Supply: +12 to +15 VDC @ 150 mA Typ.

**PMI Website Link,**

<https://www.pmi-rf.com/product-details/pob-28-24-15-lca>

**10.0 PMI Model No. PUB-14-30M20G-14-LCA, 30 MHz to 20.0 GHz Low Noise Amplifier**

PMI Model No. PUB-14-30M20G-14-LCA is a Low Noise Amplifier operating over the frequency range of 30 MHz to 20.0 GHz. It has a typical noise figure of 3 dB and a typical gain of 14 dB. It is supplied with SMA female connectors in a housing measuring 1.08" x 0.71" x 0.29".



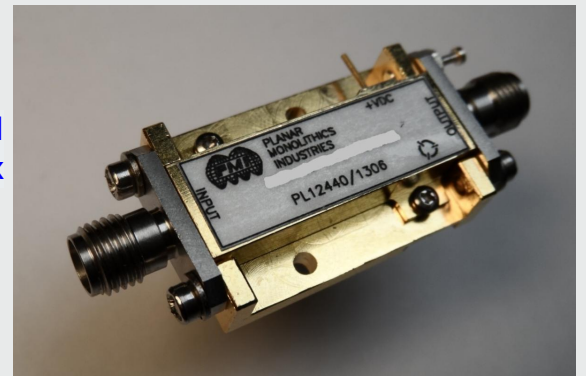
- Frequency Range: 30 MHz to 20.0 GHz
- Gain: +14 dB Typ.
- Gain Flatness:  $\pm 2.5$  dB Typ. - Measured  $\pm 1.23$  dB
- VSWR In/Out: 2.0:1 Max. - Measured 1.6:1
- Noise Figure: 3.0 dB Typ.
- OP1dB: +14 dBm Typ.
- DC Voltage Supply: +12 VDC
- DC Current Draw: 75 mA Typ. - Measured 69 mA

**PMI Website Link,**

<https://www.pmi-rf.com/product-details/pub-14-30m20g-14-lca>

## 11.0 PMI Model No. PUB-14-500M20G-14-LCA, 0.5 to 20.0 GHz Low Noise Amplifier

PMI Model No. PUB-14-500M20G-14-LCA is a Low Noise Amplifier that operates over the frequency range of 0.5 to 20.0 GHz. It has a typical noise figure of 3 dB and a typical gain of 14 dB. It is supplied in a housing measuring 1.08" x 0.71" x 0.29" and has SMA female connectors.



- Frequency Range: 0.5 to 20.0 GHz
- Gain: +14 dB Typ.
- Gain Flatness:  $\pm 1.75$  dB Typ. - Measured  $\pm 0.78$  dB
- VSWR In/Out: 2.0:1 Max.
- Noise Figure: 3.0 dB Typ.
- OP1dB: +12 dBm Min., +14 dBm Typ.
- DC Voltage Supply: +12 to +15 VDC
- DC Current Draw: 75 mA Typ.

**PMI Website Link,**

<https://www.pmi-rf.com/product-details/pub-14-500m20g-14-lca>

## DC to 50 GHz Components, Modules, and Sub-Systems

PMI offers just about any RF/Microwave component, module, or sub-system for both industrial and military based requirements. Please click on the product types below to be directed to our web site catalog. Components and modules can be modified to meet your exact requirement.

(Click on links below to be directed to the web listings)



[DLVAs, SDLVAs, ERDLVAs](#)



[Switches](#)



[Amplifiers](#)



[Limiters](#)



[Attenuators](#)



[Phase Shifters](#)



[Multifunction Integrated Assemblies](#)



[Filters and Switched Filter Banks](#)



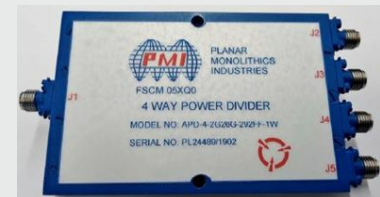
[Threshold Detectors](#)



[I/Q Vector Modulators](#)



[Diode Detectors](#)



[Power Dividers/Combiners](#)



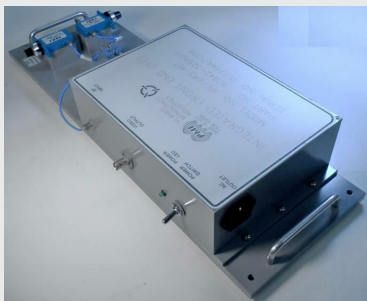
[Couplers](#)



[Frequency Discriminators](#)



[Dielectric Resonator Oscillator](#)



[Receiver Front Ends](#)



[Frequency Synthesizer](#)



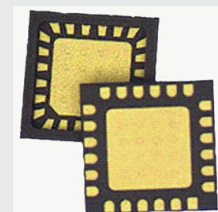
[Switch Matrices](#)



[Rack Mount and Chassis Products](#)



[Digitally Tuned Oscillator](#)



[SMT and QFN Packaging](#)

**TRYING TO MAINTAIN AN OLD SYSTEM?**



**OBSOLETE PARTS A PROBLEM?**

[OEM & Obsolete Parts Support](#)

***In-Stock Products - Same Day Shipping***

[In-Stock items that ship the same day!!](#)

We truly value your interest in our company and our products. We appreciate your feedback. Please feel free to contact us with any requirements or questions that you may have.

7311-F Grove Road Frederick, MD 21704 USA  
Phone (301) 662-5019 / Fax (301) 662-1731

4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA 95762 USA  
Phone (916) 542-1401 / Fax (916) 265-2597

Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com) / Web: [www.pmi-rf.com](http://www.pmi-rf.com)