EAST AND WEST COAST OFFICES

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA
Phone: 301-662-5019

WEST COAST FACILITY:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 • USA
Phone: 916-542-1401

sales@pmi-rf.com
http://www.pmi-rf.com/about
Planar Monolithics Industries, Inc. (PMI), an “S” Corporation, was founded by Dr. Ash (Ashok) Gorwara on November 11th, 1989 to take advantage of the growing demand in monolithic based products using Hybrid MIC/MMIC technology. PMI offers its unique DC to 50 GHz products for applications in space, military, telecommunications, communications and consumer electronics.

Today, PMI is being directed into the 21st Century by expanding the applications of RF/Microwave components and subsystems into new, low cost, RF/Microwave receiving and transmitting systems for both civilian and military customers.

Effective April 30 2013, PMI, 7311-F Grove Road, Frederick, Maryland, USA 21704, USA, http://www.pmi-rf.com acquired 100% of all the assets & property of HARI, LLC, www.harillc.com (Formerly operating as Genesis Microwave Inc., www.genesismicrowave.com ) located at 4980 Hillsdale Circle, Suite B, El Dorado Hills, CA 95762, USA.

These assets include all the test and manufacturing equipment and machinery, designs, Documentation, drawings and Intellectual property in the form of hard copies and in computer format in servers, CD's, storage areas, etc. Also included in these assets are the Office Equipment & Machinery, etc. and Computers, Office furniture, Finished goods, In-process and Raw Materials & Inventories and other Miscellaneous items. In addition to these assets, included are, all the stock in trade, merchandise, fixtures, equipment, goodwill and trade of the known business as "HARI LLC".

All the RF/MICROWAVE products, components, subsystems, etc. being designed, manufactured, serviced and produced by HARI, LLC www.harillc.com (Formerly operating as Genesis Microwave Inc., www.genesismicrowave.com ) until 30th April 30 2013, will now be offered, provided, produced, manufactured and serviced by PMI, at its West Coast Facilities Operations located at 4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA 95762, USA.
PMI was founded to take advantage of the growing demand in monolithic-based products using the Hybrid MIC/MMIC technology innovations that are mushrooming in a big way all over the world. High performance and reliable products can be obtained by using this technology.

A vacuum existed in the demand for state-of-the-art Hybrid MIC/MMIC Components and Subsystems. PMI has been setup to Design, Develop, Manufacture, Test, and Market complex state-of-the-art:

- Hybrid RF/Microwave and Monolithics Integrated Circuits (MIC/MMIC) and Components
- Hybrid MIC/MMIC Supercomponents and Subsystems

PMI provides its unique products for applications in space, military, communications, telecommunications and industrial electronics systems.

PMI has been set up to perform research, design, develop, manufacture and market various MIC/MMIC (Microwave Integrated Circuits and Monolithics Microwave Integrated Circuits) Components, Supercomponents, and Subsystems for applications in Telecommunications, Terrestrial, Satellite, and Mobile-Radio Communications, UAVs (Unmanned Aerial Vehicles) & Drones, Defense (ECM, ECCM, ESM, Radars, SIGINT, and Electronic Warfare), Navigation and Marine Electronics, FAA/DOT-Avionics, Ground Based Systems, and Microwave Landing Systems.

Worldwide demand exists for High Reliability, Low Cost systems. Such needs can be satisfied by PMI by using its unique Hybrid MIC/MMIC Technologies and products that the team has developed called Application Specific Hybrid Microwave/Monolithics Integrated Circuits (ASHMIC/ASHMMIC*). *Trademark of PMI.
As a manufacturer PMI utilizes our own designs for all components, integrated modules and subsystems:

- Amplifiers – Solid State
- Attenuators – Variable/Programmable
- Couplers (Quadrature, 180° & Directional)
- Detectors – RF/Microwave
- DLVs, ERDLVs & SDLVs
- DTOs, VCOs, PLO, DROs, & Frequency Synthesizers
- Filters & Switched
- Filter Banks
- Form, Fit, Functional
- Products & Services
- Frequency Discriminators & IFMs
- Integrated MIC/MMIC
- Assemblies (IMAs)
- IQ Vector Modulators
- Limiters – RF/Microwave
- Log Amplifiers
- Millimeter Wave Components
- (Up to 50 GHz)
- Miscellaneous Products
- Multifunction Integrated Assemblies (MIAs)
- Phase Shifters & Bi-Phase Modulators
- Power Dividers/Combiners (Passive & Active)
- Pulse Modulators (SPST)
- Rack & Chassis Mount Products
- Receiver Front Ends & Transceivers
- SDLVs, ERDLVs & DLVs
- Single Side Band Modulators
- SMT & QFN Products
- Switch Matrices
- Switched Filter Banks
- Switches – Solid State
- Systems – Radar Sense & Avoid
- Systems – Fly Eye Radars
- Threshold Detectors
- USB Products

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Application of PMI DC to 50 GHz Components & Sub-Systems

Planar Monolithics Industries, Inc. has been in business for over 25 years as a manufacturer of electronic components for defense applications. Applications such as Receiver Front-Ends, Synthesizers and Transceivers. As well as a large variety of RF components that compliment this target market. Our technical goal is to produce the finest products available that resolve this mathematical statement:

\[ V_{\text{Input}} = A \cos(\omega_c t + \phi_t) \]

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TYPICAL EW, ECM, ESM RECEIVER FRONT-END

\[ V_{\text{input}} = A \cos(\omega_c t + \phi_t) \]

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TUNER / SUPERHETROODYNE FRONT-END

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TYPICAL TRANSCEIVER / TRANSPONDER BLOCK DIAGRAM

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Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVAs, ERDLVAs & SDLVAs
DTOs, VCOs, PLO, DROs, & Frequency Synthesizers
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave Components (Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators (SPST)
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
SDLVAs, ERDLVAs & DLVAs
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products

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TYPICAL RADAR WARNING RECEIVER FRONT-END OR DIRECTION FINDING RECEIVER FRONT-END SUB-SYSTEM

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PMI specializes in replacing obsolete parts on old systems. We offer Form-Fit-Functional replacement Parts for any system. If a Source Control Drawing (SCD) is available we can offer a complete solution to meet all of the given electrical, mechanical and environmental specifications. PMI has designed, manufactured and delivered many of these replacement components such as:

- **IF & RF LOG AMPLIFIERS, SDLVAs & DLVAs**
- **LOW NOISE AMPLIFIERS, VARIABLE GAIN AMPLIFIERS & LIMITING AMPLIFIERS**
- **LIMITERS, DETECTORS, HYBRID COUPLERS & POWER DIVIDERS**
- **PHASE SHIFTERS & BI-PHASE MODULATORS**
- **I & Q VECTOR & SINGLE SIDE-BAND MODULATORS**
- **FILTERS AND SWITCH FILTER BANKS**
- **SWITCHES AND ATTENUATORS**

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PMI PRODUCTS

20 MHz to 18.0 GHz, SP8T

24.0 to 40.0 GHz, SPST

50 MHz to 40.0 GHz, SP4T

Ultra High Speeds

SP3T Pin Diode Switch

100 Watt SP2T

DC to 40.0 GHz, SPST

GPO or Conventional Coaxial Connectors

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SP6T Miniature Design

20 Watt Surface Mount SPDT

18.0 to 40.0 GHz SPST

SPST to SP64T Switch Designs

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Threshold Detectors
USB Products
PMI PRODUCTS

8.0 to 40.0 GHz
SPST Absorptive Switch

2.0 to 18.0 GHz
SP2T Absorptive Switch

2.0 to 18.0 GHz
SP3T Absorptive Switch

2.0 to 20.0 GHz
SP6T Absorptive Switch

0.1 to 18.0 GHz
Absorptive Transfer Switch

0.1 to 52.0 GHz
SP16T Absorptive Switch

0.1 to 20.0 GHz
SP4T Absorptive Switch

0.5 to 18.0 GHz
SP9T Reflective Switch

9.5 to 10.0 GHz
SP3T Reflective Switch

0.8 to 18.0 GHz
SP7T Absorptive Switch

0.5 to 18.0 GHz
SP6T Reflective Switch

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PMI PRODUCTS

1.0 to 1.1 GHz
1.0 to 1.1 GHz
1.0 to 1.1 GHz
2.5 kW Peak, Integrated T/R Switch Module
100 W Average, SP2T Reflective Switch

6.0 to 18.0 GHz
6.0 to 18.0 GHz
6.0 to 18.0 GHz
1.6 W Peak, SP2T Reflective Switch
1.0 to 1.1 GHz
SP4T Absorptive Switch

2.0 to 4.0 GHz, 300 W Peak, SP2T Reflective Switch
4.0 to 8.0 GHz, 300 W Peak, SP2T Reflective Switch
8.0 to 18.0 GHz, 300 W Peak, SP2T Reflective Switch

7.0 to 18.0 GHz
1.0 to 18.0 GHz
0.7 W CW, SP6T Absorptive Switch
1 W CW, SP3T Absorptive Switch

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PMI PRODUCTS

- 0.5 to 18.0 GHz, 20 dB Switched Bit Attenuator
- 1.0 to 18.0 GHz, 60 dB Digital Attenuator
- DC to 2.0 GHz, Switched Bit Attenuator
- 1.0 to 4.0 GHz, Voltage Variable Attenuator
- 8.0 to 18.0 GHz, 8-BIT Digital Attenuator

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PMI PRODUCTS

8.0 to 18.0 GHz, SDLVA

1.1 to 1.12 GHz, 180° Bi-Phase Modulator/Phase Shifter

6.0 to 18.0 GHz, 360° Digital Phase Shifter

12.0 to 18.0 GHz Frequency Discriminator

0.1 to 18.0 GHz, CW Immune SDLVA

8.0 to 10.0 GHz, 360° Digital Phase Shifter

SP3T Switch

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PMI PRODUCTS

1.0 to 2.0 GHz, LNA w/35 dB Gain & 1.4 dB Noise Figure

2.0 to 18.0 GHz, Limiting Amplifier with +21 dBm Limited Output

1.6 to 2.7 GHz, Limiting Amplifier w/40 dB Gain & Limited RF Output of +15 dBm

10 MHz to 6.0 GHz Portable Amplifier with 30 dB Gain

9.0 to 10.0 GHz, LNA w/37 dB Gain & 3 dB Noise Figure

2.0 to 18.0 GHz, LNA w/30 dB Gain & 4 dB Noise Figure

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PMI PRODUCTS

4-Way Power Divider with Quad Phase
Output of J2=0°, J3=90°, J4=180° & J5=270°

Quadrature Couplers

30 MHz to 6.0 GHz, Amplified
8-Way Power Divider

20 MHz to 6.0 GHz, Amplified
4-Way Power Divider

6.0 to 19.0 GHz, 2-Way Power Divider

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PMI PRODUCTS

Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVAs, ERDLVAs & SDLVAs
DTos, VCoS, PLO, DROs, & Frequency Synthesizers
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1.0 GHz, Frequency Discriminator
2.0 to 18.0 GHz, SDLVA
2.0 to 18.0 GHz, SDLVA

8.8 to 9.46 GHz
Temperature Stabilized Output Medium
Power X-Band Gunn-Effect Oscillator

3.1 to 3.5 GHz
Bi-Directional Variable Attenuator

1.0 to 18.0 GHz
Limiting Amplifier

2.0 to 18.0 GHz
Digital Frequency Discriminator

0.5 to 8.0 GHz
RF Limiter

0.75 to 1.25 GHz SDLVA

26.5 to 40.0 GHz, Passive Amplitude Equalizer

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PMI PRODUCTS

0.4 to 2.0 GHz, Coaxial Limiter
0.01 to 2.5 GHz, 100 W CW, 1 kW Peak, RF Limiter
Low Pass Filter with 2400 MHz Cutoff Frequency
18.0 to 40.0 GHz, Low Loss Diplexer
6.0 to 18.0 GHz, Filter/Detector

0.03 to 3.0 GHz, High Power Limiter
18.0 to 40.0 GHz, High Power Limiter
0.5 to 8.0 GHz, Active Limiter

750 MHz Cavity Filter with 500 MHz, 1 dB Bandwidth

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PMI PRODUCTS

1.0 to 18.0 GHz
4 W CW RF Limiter

0.1 to 20.0 GHz
10 W Pulsed RF Limiter

10 MHz to 14.0 GHz, 100 W CW RF Limiter
10 MHz to 18.0 GHz, 20 W CW RF Limiter
20 MHz to 15.0 GHz, 100 W CW RF Limiter
20 MHz to 18.0 GHz, 80 W CW RF Limiter
20 MHz to 18.0 GHz, 100 W CW RF Limiter

10 MHz to 9.0 GHz, 100 W CW RF Limiter

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8.0 to 18.0 GHz, Lange Coupler
5.4 to 5.9 GHz, Digitally Controlled Phase Shifter
0.5 to 18.0 GHz, Threshold Detector
16.0 GHz Fo, 2.0 GHz Bandwidth, Cavity Filter
2.0 to 20.0 GHz, SP6T Switch
Miniature, 2 Channel Switch Filter Bank
6.0 to 18.0 GHz, Synthesizer, Switch Filter Bank, Amplifier Module
DC to 2.0 GHz, Electro-mechanical STEP Attenuator
PMI PRODUCTS

2.0 to 18.0 GHz, Threshold Detector

18.0 to 40.0 GHz, Low Noise, Tunnel Diode Detector

0.5 to 18.0 GHz, High Speed, High Sensitivity Diode Detector

4.0 to 26.5 GHz, Zero Bias Schottky Detector

2.0 to 18.0 GHz, High Speed, LVPECL Logic Output Threshold Detector

0.5 to 18.0 GHz, High Speed, High Sensitivity Diode Detector

2.5 to 3.5 GHz, High Speed, DC-Coupled, Directional Detector

16.0 to 40.0 GHz, High Speed Threshold Detector

3.8 to 4.6 GHz, High Speed Threshold Detector

4.0 to 4.5 GHz, Ultra-High Speed, High Sensitivity Threshold Detector

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10.0 GHz, Integrated Phase Shifter and Dielectric Resonator Oscillator (DRO) Module

21.0 GHz, Beam Forming Monopulse Circuit

2.0 to 18.0 GHz, Digitally Tuned Oscillator (DTO)

6.0 to 18.0 GHz, Synthesizer

1.0 to 18.0 GHz, Frequency Discriminator

Delay Line in a Frequency Discriminator

10.0 GHz, Integrated Phase Shifter and Dielectric Resonator Oscillator (DRO) Module (Inside)

30 MHz, Frequency Discriminator

Digitally Tuned Oscillators (DTOs)
2.0 to 8.0 GHz
CW Immune EW Detector Module

8.0 to 18.0 GHz
CW Immune EW Detector Module

1.0 to 20.0 GHz
Miniature Successive Detection Log Video Amplifier

8.0 to 10.0 GHz
Detector Log Video Amplifier
PMI PRODUCTS

1.0 to 18.0 GHz, Limiting Amplifier
IF Logarithmic Amplifier (SDLVA)
24.0 to 40.0 GHz, Bandpass Filter

6.0 to 18.0 GHz, I/Q Vector Modulator
85 MHz to 18.0 GHz, I/Q Vector Modulator

Custom Frequency Doubler Module
0.95 to 18.0 GHz, 8 Channel Switch Filter Bank
0.1 to 18.0 GHz, Threshold Detector

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Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products
PMI PRODUCTS

- 0.5 to 40.0 GHz, USB Powered LNA
- 4.0 to 18.0 GHz, Up/Down Converter
- 500 MHz to 40.0 GHz USB Powered SP2T Switch
- 2.0 to 6.0 GHz, 8 Bit 360° Phase Shifter
- 100 MHz to 18.0 GHz Transceiver (Phase II)
- 85 MHz to 2.0 GHz, 8 bit 360° Phase Shifter
- Double Sided 100 MHz to 18.0 GHz Switch Filter Bank
- Vector Modulator
- Integrated Module

WEST COAST FACILITY:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 • USA•
Phone: 916-542-1401

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http://www.pmi-rf.com/about

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA•
Phone: 301-662-5019

Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVAs, ERDLVAs & SDLVAs
DTOs, VCOs, PLO, DROs, & Frequency Synthesizers
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave Components (Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators (SPST)
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
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SMT & QFN Products
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1.0 to 18.0 GHz Channelized Receiver

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850 MHz Instantaneous Bandwidth Baseband Module

10 MHz Reference Source

11.2 to 18.0 GHz Dual Band Bandpass Filter Module

4.4 to 7.8 GHz Down Converter Module

7.8 to 11.2 GHz Down Converter Module

1.0 to 4.4 GHz 4-Way Power Divider

4.4 to 18.0 GHz 4-Way Power Divider

850 MHz Instantaneous Bandwidth Baseband Module
PMI PRODUCTS

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EAST COAST FACILITY:
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Phone: 301-662-5019
11.825 GHz Band Pass Filter

70 to 330 MHz Threshold Detector

DC to 26.0 GHz 5-Channel Switch Filter Bank

0.5 to 18.0 GHz 16-Way Power Divider

14.125 GHz Band Pass Filter

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PMI PRODUCTS

DC to 3.5 GHz Microstrip Low Pass Filter

6.0 to 18.0 GHz, 50 W CW (1.5 kW Peak), SP2T Reflective Switch

DC to 6.0 GHz Microstrip Low Pass Filter

1.0 to 18.0 GHz Portable Amplifier

DC to 2.0 GHz Microstrip Low Pass Filter

9.2 to 10.0 GHz, 200 W CW (1.6 kW Peak), SP2T Reflective Switch

DC to 1.25 GHz Microstrip Low Pass Filter

6.0 to 18.0 GHz, 120 W CW (1.5 kW Peak), SP2T Reflective Switch

DC to 10.0 GHz Microstrip Low Pass Filter

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PMI PRODUCTS

- 6.0 to 18.0 GHz CW Immune EW Detector Module
- 11.0 GHz Band Pass Filter
- 2.5 to 18.0 GHz High Pass Filter
- 6.0 to 18.0 GHz Low Noise Amplifier
- 2.0 to 18.0 GHz 4-Way Power Divider
- 8.0 to 12.0 GHz Amplifier
- 7519.95 MHz PDRO
- 6.0 to 18.0 GHz Portable Adjustable Threshold Detector
- 0.2 to 18.0 GHz 8-Bit Digitally Tuned Attenuator

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13.0 to 14.0 GHz
8-Bit Programmable Attenuator

0.5 to 18.0 GHz
Dual Gain Amplifier

2.0 to 18.0 GHz
SP6T Reflective Switch

328 to 335.5 MHz
7-Way Power Divider

4.0 to 8.0 GHz
SP20T Absorptive Switch

4828.57 MHz
Band Pass Filter

30 MHz to 3.0 GHz
High Power Limiter

2.0 to 12.0 GHz
Low Noise Amplifier

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USB Products

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---

3.5 to 5.5 GHz
Frequency Discriminator

0.1 to 18.0 GHz
SP3T Absorptive Switch

1.0 to 25.0 GHz
Low Noise Amplifier

0.5 to 18.0 GHz
16-Way Power Divider

17.6 to 21.6 GHz
Passive Amplitude Equalizer

5.0 to 10.0 GHz
Hybrid Coupler

1.0 to 18.0 GHz
7-Bit Programmable Attenuator
PMI PRODUCTS

0.1 to 18.0 GHz Transceiver

2.6 to 5.2 GHz
High Speed Integrated Module

840 MHz Phase-Locked Oscillator

0.1 to 18.0 GHz
CW-Immune SDLVA

10 MHz, 8-Way Amplified
Power Divider

0.1 to 18.0 GHz
Transceiver Module

0.1 to 18.0 GHz
Integrated Module

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**50 MHz to 18.5 GHz DLVA**

**2.0 to 18.0 GHz SDLVA**

**18.0 to 40.0 GHz SDLVA**

**0.5 to 2.0 GHz DLVA**

**50 MHz to 90 MHz SDLVA**

**2.5 to 4.9 GHz SDLVA**

**7 MHz DLVA**

**7 MHz DLVA**

**315 to 362 MHz SDLVA**

**0.1 to 3.0 GHz SDLVA**

**0.1 to 3.0 GHz SDLVA**

**0.1 to 3.0 GHz SDLVA**

**0.1 to 3.0 GHz SDLVA**

**0.2 to 2.5 GHz SDLVA**

**0.5 to 2.0 GHz ERDLVA**

**0.7 to 1.3 GHz SDLVA**

**0.5 to 2.0 GHz DC-Coupled DLVA**

**0.5 to 18.0 GHz DLVA**

**0.5 to 2.0 GHz ERDLVA**

**0.7 to 1.3 GHz SDLVA**

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PMI PRODUCTS

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PMI PRODUCTS

DC to 40.0 GHz
SPST Absorptive Switch

0.1 to 50.0 GHz
SP2T Absorptive Switch

0.5 to 40.0 GHz
SP3T Absorptive Switch

0.5 to 40.0 GHz
SP4T Absorptive Switch

0.1 to 50.0 GHz
SP5T Absorptive Switch

0.5 to 40.0 GHz
SP8T Absorptive Switch

0.5 to 18.0 GHz
SP20T Absorptive Switch

0.5 to 18.0 GHz
SP12T Absorptive Switch

7.0 to 18.0 GHz
SP20T Absorptive Switch

0.5 to 40.0 GHz
SP5T Absorptive Switch

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PMI PRODUCTS

0.25 to 35.0 GHz Low Noise Amplifier
10 MHz to 6.0 GHz, 2.5 W CW Limiter
10 MHz to 12.0 GHz, +40 dBm CW Limiter
10 MHz to 6.0 GHz Integrated Microwave Assembly
1.0 to 2.0 GHz, 200 W CW Limiter
0.1 to 0.3 GHz Voltage Controlled Attenuator
10 MHz to 17.0 GHz, +40 dBm CW Limiter
50 MHz to 4.0 GHz, 1 W CW Limiter

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PMI PRODUCTS

1.5 to 27.0 GHz 2-Way Power Divider

2.0 to 4.0 GHz 2-Way Power Divider

2.0 to 6.0 GHz 2-Way Power Divider

2.0 to 26.0 GHz 2-Way Power Divider

6.0 to 18.0 GHz 2-Way Power Divider

6.0 to 20.0 GHz 2-Way Power Divider

6.0 to 12.0 GHz 2-Way Power Divider

2.0 to 26.5 GHz 2-Way Power Divider

8.0 to 12.0 GHz 2-Way Power Divider

12.0 to 18.0 GHz 2-Way Power Divider

12.0 to 26.5 GHz 2-Way Power Divider

18.0 to 26.5 GHz 2-Way Power Divider

4.0 to 8.0 GHz 2-Way Power Divider

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PLANAR MONOLITHICS INDUSTRIES, INC. 
FACILITIES INFORMATION

**5715 INDUSTRY LANE, FREDERICK, MD:**
- 2,500 sq. ft. Facility
- High Power Equipment Test Laboratory
- Conference Room
- 600 sq. ft. 10,000 ppm Clean Room
- Machine Shop
- Assembly & Test
- ESS Test Room

**7310 GROVE ROAD, FREDERICK, MD:**
- 1,000 sq. ft. Facility
- Accounting & Human Resources Offices
- Executive Vice President's Office

**5714-C INDUSTRY LANE, FREDERICK, MD:**
- 2,222 sq. ft. Facility
- Machine Shop

**6590 WATERS EDGE CT, NEW MARKET, MD:**
- 4,000 sq. ft. Facility
- CORPORATE HQ
- Conference Rooms & Executive Offices

**4921 Robert J. Mathews Pkwy, El Dorado Hills, CA:**
- 5,100 sq. ft. Facility
- Components Manufacturing
- Hybrid Assembly
- Test and Engineering Departments
- Production and Quality Departments
- Continued Manufacturing Previous HARI, LLC
- (formally Genesis Microwave)
- Products as listed at [www.harilllc.com](http://www.harilllc.com)
- and [www.genesismicrowave.com](http://www.genesismicrowave.com)

**ACCOUNTING & CORPORATE INFO:**
- Type “S” Corporation, Pennsylvania
- Peachtree Sage 50, 2013
- EXACT MAX MRP
- Accrual Basis Accounting Practice
- Fiscal Year is December 31st
- GAAP Guidelines Followed
- Monthly Internal Financial Reports
- Weekly Cash Flow Analysis Reports

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<td>LOCKHEED MARTIN CO, AL</td>
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**West Coast Facility:**
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 • USA
Phone: 916-542-1401

**East Coast Facility:**
7311-F Grove Road
Frederick, MD 21704 • USA
Phone: 301-662-5019

sales@pmi-rf.com
http://www.pmi-rf.com/about
## PROGRAMS

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Phone: 301-662-5019

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### CUSTOMER | PROGRAM
--- | ---
HARRIS CORPORATION, NJ | THRESHOLD DETECTORS, ALQ-172, ALQ-214
JPL, CA | LIMITER
 | AMPLIFIER
 | DIGITALLY TUNED ATTENUATORS
 | PHASE SHIFTERS
 | FREQUENCY DISCRIMINATORS
SPACE VECTOR, CA | ATLAS ROCKET
PASTERNACK ENTERPRISES, CA | OVER 150 DIFFERENT IN STOCK MODELS
INTEL CORPORATION, CA | 56 NETWORKS
DTS (CHILEAN AIRFORCE), CHILE | AMPLIFIERS
BRAZILIAN NAVY | RF COMPONENTS FOR DF SYSTEM
ULTRA ELECTRONICS – AVALON SYSTEMS, AUSTRALIA | AMPLIFIERS
ULTRA ELECTRONICS – EWST, UK | SDLVAs
 | COARSE MICROWAVE DISCRIMINATOR
HENSOLDT SENSORS GmbH, GERMANY | SDLVAs
ELDES S.R.L., ITALY | ATTENUATORS, SDLVAs
DANISH AIRFORCE, DENMARK | INTEGRATED MICROWAVE ASSEMBLY, F-18
NETHERLANDS MINISTRY OF DEFENSE, NETHERLANDS | SWITCHES
FOCUS MICROWAVES, CANADA | SWITCHES
MC COUNTERMEASURES, CANADA | SDLVAs
 | FREQUENCY DISCRIMINATORS
REIHNMETALL, ITALY | OSCILLATORS
BANC3, NJ | CHANNELIZED RECEIVER
ANAREN, NY | NAVAL IMA
BAE, NY | ALR-56
HUGHES (RAYTHEON) | ALR-67
LOCKHEED MARTIN, NY | EQUALIZERS FOR BLQ-10, E-2D ALQ-217 & GRIFIN

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2014 TOTAL: 100.00%
2015 TOTAL: 100.00%
2016 TOTAL: 100.00%

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EAST COAST FACILITY:
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Frederick, MD 21704 • USA•
Phone: 301-662-5019
Orders Booked Statistics by Country
2017 through 2019

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2017 TOTAL: 100.00%

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PMI EAST COAST OPERATIONS

Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVAs, ERDLVAs & SDLVAs
DTos, VCOs, PLO, DROs, & Frequency Synthesizers
Filters & Switched
Filter Banks
Form, Fit, Functional
Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC
Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave
Components
(Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated
Assemblies (MIAs)
Phase Shifters & Bi-Phase
Modulators
Power Dividers/Combiners
(Passive & Active)
Pulse Modulators (SPST)
Rack & Chassis Mount
Products
Receiver Front Ends
& Transceivers
SDLVAs, ERDLVAs
& DLVAs
Single Side Band
Modulators
SMT & QFN Products
Switch Matrices
Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products

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Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVAs, ERDLVAs & SDLVAs
DTOs, VCOs, PLO, DROs, & Frequency Synthesizers
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave Components (Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators (SPST)
Receiver Front Ends & Transceivers
SDLVAs, ERDLVAs & DLVAs
Single Side Band Modulators
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Modulators
SMT & QFN Products
Switch Matrices
Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products
Keysight 50 GHz PNA

2.0 to 18.0 GHz
200 W CW TWT Amplifiers

SSPA 10 MHz to 2.0 GHz, 100 W CW

20 W Fiber Laser

PMI EAST COAST OPERATIONS

WEST COAST FACILITY:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 • USA
Phone: 916-542-1401

sales@pmi-rf.com
http://www.pmi-rf.com/about

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA
Phone: 301-662-5019

Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVAs, ERDLVAs & SDLVAs
DTos, VCos, PLO, DROs, & Frequency Synthesizers
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave Components (Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators (SPST)
Rack & Chassis Mount Products
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Switch Matrices
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Random Vibration

Thermal Shock

Shock Testing

Hermetic Package Testing

PMI EAST COAST OPERATIONS

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Threshold Detectors
USB Products

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Metallurgic Microscope
Plasma Cleaners
Thermal Shock

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HAAS DT1 CNC Milling Machine

Amplifiers – Solid State
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Switched Filter Banks
Switches – Solid State
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Systems – Fly Eye Radars
Threshold Detectors
USB Products
Network Analyzers:
- (3) Agilent N5230A PNA (10 MHz to 40 GHz)
- (2) Agilent N5230A PNA (10 MHz to 20 GHz)
- (2) Agilent N5230C-420 PNA-L (10 MHz to 40 GHz)
- (2) Agilent N4691 E-CAL (10 MHz to 20 GHz)
- (2) Agilent N4692 E-CAL (10 MHz to 40 GHz)
- (1) Agilent E8363C PNA (10 MHz to 40 GHz)
- (1) HP Network Analyzer (10 kHz to 300 MHz)
- (1) HP 5100 Network Analyzer (0.5 to 26.5 GHz)
- (1) Agilent N5230C PNA Network Analyzer (10 MHz to 20 GHz)
- (1) Keysight E8364B PNA Network Analyzer (10 MHz to 40 GHz)
- (1) Keysight N5234A PNA-L Network Analyzer (10 MHz to 50 GHz)
- (1) Keysight N4692A E-CAL (10 MHz to 50 GHz)
- (1) Keysight 8362B Network Analyzer (10 MHz to 20 GHz)

Noise Figure Meter:
- (2) Agilent N8975A (10 MHz to 26.5 GHz) & Downconverter (40 GHz)
- (1) HP 8970B

Spectrum Analyzer:
- (1) HP 8593E
- (1) HP E4448A PSA Spectrum Analyzer (3 Hz to 50 GHz)
- (1) Keysight N9030A Spectrum Analyzer (3 Hz to 50 GHz)
- (1) Keysight 8563E Spectrum Analyzer (9 kHz - 26.5 GHz)

Power Meter:
- (3) Gigatronics 8541B/C, 8542C
- (4) Agilent E4418B
- (1) Agilent N1913A

Pulse/Signal Generators:
- (1) Agilent E8257D
- (1) Anritsu MG3692B
- (1) HP 8015A
- (1) HP 8013B
- (1) HP 8012B
- (1) HP 8350B Sweep Oscillator
- (1) HP Arbitrary Waveform Generator 33120A
- (1) HP 8664A
- (1) Wavetek Model 801
- (2) HP 8673D
- (2) Agilent 33522A Arbitrary Waveform Generator
- (2) Keysight E8257A PSG Analog Signal Generator
- (5) Keysight E8257D PSG Analog Signal Generator

Oscilloscopes:
- (1) Tektronix TDS210
- (1) Tektronix TDS2024C
- (1) Agilent DS06034A
- (1) Keysight DSO80204B
- (1) Keysight DSOS204A
- (4) Agilent DSOX3034A
- (1) Keysight (2 GHz BW)

Power Amplifiers:
- (1) Varian TWTA 7 – 18 GHz, 20W
- (1) CPI TWT Amplifier (2-8 & 8-18 GHz) 300 W CW
- (1) MC (3-3.5 GHz) 100 W
- (1) MC (800 – 1000 MHz) 100 W
- (1) MC (20 -512 MHz) 25-50 W
- (1) MC (20-500 MHz) 100 W

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EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA•
Phone: 301-662-5019
PMI East Coast Operations
Manufacturing and Standards

Manufacturing Equipment:

- (1) TSE-11-A ESPEC Thermal Shock Chamber
- (1) T Shock Jr. Thermal Shock Chamber
- (1) JEN410 IR Reflow Oven
- (1) Thermo Electron Oven
- (2) Anatech Plasma Cleaner
- (1) Metallurgical Microscope MT1000
- (5) Westbond 74767E-79 Convertible Wire Bonder
- (1) Westbond 7476E-79 Wedge Wire Bonder
- (1) Westbond 747630E-79 Wedge Wire Bonder
- (1) Westbond 7400A Wedge Wire Bonder
- (2) Westbond Bond Pull Center
- (1) Dage Bond Puller / Die Shear
- (1) Unitek Unibond-II Parallel Gap Welder
- (2) HAAS DT1 CNC Milling Machine
- (1) Mazak Nexus 430A-II CNC Milling Machine
- (1) Hardinge Turret Lathe
- (1) Di-Acro Power Shear
- (1) Brady Label Machine BP-THT-600-11
- (7) ESS Thermal Hot/Cold Plates
- (1) Ling Dynamic V650 Random Vibration Setup
- (1) Shock Tester
- (1) Varian Helium Leak Tester
- (1) 2.0 to 18.0 GHz 200 W CW TWT Amplifiers
- (1) Keysight 50 GHz PNA
- (1) SSPA 10 MHz to 2.0 GHz, 100 W CW
- (1) 20 W Fiber Laser
- (1) Hermetic Package Tester
- (1) UV Curing Light Printer
- (1) Hermetic Laser Welder
- (1) Cycling Chamber
- (1) CO₂ Laser

Software:

- Keysight - Genesys S/Filter Synthesis and Simulation
- Ansys – HFSS, High Frequency Structural Simulator
- Exact MAX – MRP/ERP Software
- AutoCAD 2005
- AutoCAD 2013
- Altium Designer
- Microwave Office
- SolidWorks 2014
- Gibbs Cam

Standards:

- ISO9001
- MIL-STD-454
- MIL-STD-202
- MIL-STD-883
- MIL-E-5400
- MIL-I-45208
- IPC-A-610 Workmanship Standard
- IPC-J-STD-001 Soldering Standard
- MIL-STD-45662 Calibration Standard

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EAST COAST FACILITY:
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Amplifiers – Solid State
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Systems – Fly Eye Radars
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PMI West Coast Operations

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HAAS DT1 CNC Milling Machine

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PMI West Coast Operations
Manufacturing and Standards

Network & Spectrum Analyzers:
- (5) HP 8757D Scalar Analyzers
- (1) HP 8720D Network Analyzer
- (1) HP 8565E Spectrum Analyzer (50 GHz)
- (1) HP 8592L Spectrum Analyzer
- (1) Keysight E8364B PNA Network Analyzer (10 MHz to 50 GHz)

Noise Figure Meters:
- (1) HP 8970A Noise Meter
- (1) Keysight N4002A Noise Source

Power Meters:
- (1) HP EPM-442 Power Meter
- (1) HP E4412A Power Meter
- (1) HP 437B Power Meter
- (1) HP 437A Power Meter

Pulse/Signal Generators:
- (1) HP 83731B Signal Generator
- (1) HP 83620A Signal Generator
- (1) HP 8013B Pulse Generator
- (4) HP 83620A Sweep Generators

Oscilloscopes:
- (1) Infinium Digital Scope & Probe
- (1) Keysight MSO-X-3054A 500 MHz BW
- (1) Tektronix 2246 100 MHz BW
- (1) Tektronix 2465A 350 MHz BW

Manufacturing Equipment:
- (1) Quincy Model 40 Oven
- (1) Sym-Tek P162P5J Oven
- (1) Cole/Parm 05015-50 Oven
- (1) Blue M Stable Therm Oven
- (1) Branson 821D Ultrasonic Cleaner
- (2) UNITEK Gap Welders
- (1) Anatech Plasma Cleaner/Etcher
- (3) Westbond 7400A Wedge Bonders
- (1) Westbond 8850 Bond Pull Center
- (3) Westbond 1200A Die Attach Stations
- (1) HAAS DT1 CNC Milling Machine
- (2) Westbond 8849 Convertible Wire Bonder
- (1) Westbond 8850 Ball Bonder
- (1) Westbond 7600B Ribbon Bonder
- (4) Thermal Hot/Cold Plates
- (4) Hot Plates

Software:
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Trained and Experienced ITAR/Export Administrator

Export Compliance Manual

AES (Automated Export System) certified export staff

Long Term Relationships with both DDTC and SNAP-R Personnel

U.S. Government Registration Numbers:

- Cage Code: 05XQ0 (East Coast)
- Cage Code: 71A34 (West Coast)
- DUNS Number: 829998517
- SAM (CCR) Registration: 1998E211401
- Federal Tax ID (TIN): 52-1756966
- DDTC Registrant Code: M16913
- DSS Cleared Facility

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International Traffic in Arms Regulations (ITAR)

United States Department of State
Bureau of Political-Military Affairs
Directorate of Defense Trade Controls
Washington, D.C. 20522-0112

August 8, 2019

Sebastian Palacios, Vice President
Planar Monolithics Industries, Inc.
7511 F Grove Road
Frederick, MD 21704
SPALACIO@PMI-RF.COM

REGISTRANT CODE: M16913
EXPIRATION DATE: 08/31/2020

Reference: Manufacturer and Exporter Registration Statement and Fee Submission

Dear Mr. Palacios:

The Office of Defense Trade Controls Compliance received your registration statement and fee to register as a manufacturer and exporter. We have reviewed your registration statement and your registration code is M16913, which expires on 08/31/2020.

Any person who engages in the United States in the business of either manufacturing or exporting defense articles or furnishing defense services is required to register and keep that registration current with this office pursuant to the Arms Export Control Act (AECA) and the International Traffic in Arms Regulations (ITAR Part 122). Registration serves as a precondition to submitting an application for an export license or other approval from the Directorate of Defense Trade Controls (DDTC), or to use export exemptions. This registration does not satisfy the requirements for registering as a broker pursuant to ITAR Part 129.

As you are the senior officer empowered to sign the registration statement, we ask you to maintain records consistent with ITAR Section 122.5 regarding: 1) The key senior officer listed on the registration who will oversee the compliance program and be responsible for designating the direct employees who will serve as “empowered officials” at their place of employment, and 2) a list of qualified, direct employees who will serve as “empowered officials” by name, position, business unit, phone and fax numbers and email addresses. Please note that third parties (individuals who are not direct employees, such as consultants, subcontractors or outside counsel, for example) cannot serve as “empowered officials.”

ITAR Section 122.5 requires you to maintain records concerning your registration and the manufacture, acquisition and disposition of defense articles; the provision of defense services; and information on political contributions, fees, or commissions furnished or obtained, as required by ITAR Part 130. Records maintained shall be available at all times for inspection and copying by this office or by Customs officials. To maintain such records, managers, supervisors and employees need appropriate training on AECA and ITAR requirements and must understand the individual and organizational ramifications of failure to comply. Ramifications may include shipment delay and/or shipment seizure by Customs and Border Protection, loss of export privileges, or criminal charges.

You may refer to the DDTC website for a Compliance Guide at http://www.pmddtc.state.gov and then click on the Compliance tab. The DDTC website also includes a copy of the ITAR, explanations of export licensing procedures, how to submit a license application, country sanctions, individuals/companies debated by the Department of State, and other export matters. The website also includes procedures for requesting a commodity jurisdiction determination (ITAR Section 120.4) should you have questions on whether an article, services, or technical data is covered by the ITAR Part 121 (U.S. Munitions List).

Please include your registration code and the following statement on all registration correspondence to this office: “I hereby certify that I, [name of individual], have authorized [name of company, if applicable] to act for me as a registered exporter in the State of California.”

Sincerely,

Jared Cook
Chief, Registration Compliance & Analysis (RCA)

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International Quality Registrars (IQR) Corporation

Planar Monolithics Industries, Inc.
Headquarters: 2317 Grove Road, Frederick, MD 21704 USA
Site 2: Shady Grove Rd., Frederick, MD 21701 USA
Site 3: 7713 N. Franklin Rd., Frederick, MD 21704 USA
Site 4: 4921 Robert J. Mathews Pkwy, Suite #1, El Dorado Hills, CA 95762 USA

Additional Site Locations: Yes

The organization’s QMS has been evaluated according to the International Quality Registrars (IQR) Corporation QMS certification scheme for the following scope:
“Design, Development and Manufacture of Microwave Frequency Components, Sub-Systems and Systems, and Contract Manufacturing Services”

Exclusions: None

ISO 9001:2015
Quality Management System - Requirements

This QMS certification is subject to periodic audits by International Quality Registrars (IQR) Corporation.

Registration No.: 18-120041-IQ
Client ID: PMI09
Cert. Expiration Date: 09/17/21
Cert. Issued Date: 09/17/18

Last Cert. Revision Date: 09/17/18
Initial Cert. Issue Date: 02/24/09
Sheet No. 1 of 1

IQR QMS Certification Signature

FORM IQR-2510 Rev. A

sales@pmi-rf.com
http://www.pmi-rf.com/about

WEST COAST FACILITY:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 •USA•
Phone: 916-542-1401

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 •USA•
Phone: 301-662-5019
PMI EAST COAST ORGANIZATION CHART

Dr. Ashok Gorwa
President & CEO
Director of Engineering

Helen Steinhaus
Executive Vice President

Dave Durbin
Vice President
Director of RF/Microwave
Subsystems & Special Projects

Stephen Washabaugh
Executive Assistant

Sebastian Palacio
Vice President
Director of Sales & Marketing/Principal Engineer/Compliance

Jeff Augustine
Accounting Department

Donald Harmon
Executive Assistant

Dan Soldey
Certified Public Accountant

Engineering Consultants
Human Resources
Shanmugam Nataraja
Chief Technical Officer

Dr. Alex Lapidus
RF/Microwave Filter & Multiplexer Design Consultant

Engineering Assembler

Engineering Technician

Michael Hanken
RF Design Engineer/Program Manager

Jason Pechner
QA/QC Manager/Assistant FSO

IT Department
Fred Knasel
Production Supervisor

Dr. Alex Lapidus
RF/Microwave Filter & Multiplexer Design Consultant

QA Inspector
Production Planning & Inventory Control

Drafting & Design P Jobs
Production Test Lab

Executive Office Assistants - Administration

Cody Wiener
Adam Fitzwater
Sales & Marketing Executive

Sean Gorwa
Jr. Operations Analyst

Purushothaman B
Filter Design Engineer and Consultant

Jeff Augustine
Accounting Department

Donal Harmon
Executive Assistant

Dan Soldey
Certified Public Accountant

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Executive Assistant

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Accounting Department

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Executive Assistant

Dan Soldey
Certified Public Accountant

Corporate 2
Administration 2
Accounting / Finance / CPA 3
Sales & Marketing 5
Quality Assurance Manager 1
Design Engineering (Electrical & Mechanical) 9
Manufacturing Assembler 10
Manufacturing Technician 10
Machine Shop 2
Production Planning, Inventory Control 4
Quality Control Inspector 2
Engineering Consultant 5

TOTAL 55

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Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVs, ERDLVs & SDLVs
DTos, VCOs, PLO, DROs, & Frequency Synthesizers
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave Components (Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators (SPST)
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
SDLVs, ERDLVs & DLVs
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products