PLANAR MONOLITHICS INDUSTRIES, INC.

RF / MICROWAVE COMPONENTS & MULTIFUNCTION MODULES / SUBSYSTEMS

TECHNICAL CAPABILITIES & FACILITIES PRESENTATION

September 10, 2020

PMI WEST COAST:
4921 ROBERT J. MATHEWS PKWY, SUITE 1
EL DORADO HILLS, CA 95762, USA
Tel: 916-542-1401

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http://www.pmi-rf.com

PMI EAST COAST:
7311 - F GROVE ROAD
FREDERICK, MD 21704, USA
Tel: 301-662-5019
EAST AND WEST COAST OFFICES

WEST COAST FACILITY:
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PMI West Coast
El Dorado Hills, CA

PMI East Coast
Frederick, MD
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:

**PMI Evolution and Purpose**

**DC to 50GHz**

- **RF/MICROWAVE INTEGRATED MODULES**
- **RF/MICROWAVE SUB-SYSTEMS**
- **RF/MICROWAVE MILITARY, COMMUNICATIONS & DRONE SYSTEMS CUSTOMERS**
- **MMIC Technology & Processes**
- **HYBRID Technology & Processes**
- **DISCRETE Technology & Processes**
- **Analog & Digital Technology & Processes**
- **In-House Machine Shop Capability**

**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
- SMT & QFN Products
- Switch Matrices
- Switched Filter Banks
- Switches – Solid State
- Systems - Radar Sense & Avoid
- Systems – Fly Eye Radars
- Threshold Detectors
- USB Products

**EAST COAST FACILITY:**
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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:

$$V_{(input)} = A \cos(\omega_c t + \phi_t)$$

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

TYPICAL EW, ECM, ESM RECEIVER FRONT-END

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

- **Amplitude**
- **Frequency**
- **Phase & Modulation**

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TUNER / SUPERHETROODYNE FRONT-END

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 (MIA’s)
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
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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

TYPICAL TRANSCEIVER / TRANSPONDER BLOCK DIAGRAM

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TYPICAL RADAR WARNING RECEIVER FRONT-END OR DIRECTION FINDING RECEIIVER 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

- SP3T Pin Diode Switch
- 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 Miniature Design
- 20 Watt Surface Mount SPDT
- 18.0 to 40.0 GHz SPST
- SP6T Miniature Design
- 20 Watt Surface Mount SPDT
- 100 Watt SP2T

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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
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Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
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Single Side Band Modulators
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Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
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

0.1 to 18.0 GHz Absorptive Transfer Switch

0.1 to 52.0 GHz SP16T Absorptive Switch

0.5 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
2.5 kW Peak, Integrated T/R Switch Module

1.0 to 1.1 GHz
100 W Average, SP2T Reflective Switch

0.3 to 10.0 GHz, 10 W CW, SP2T Reflective Switch

6.0 to 18.0 GHz, 1 W Average SP4T Absorptive Switch

7.0 to 18.0 GHz
0.7 W CW, SP6T Absorptive Switch

1.0 to 18.0 GHz
1 W CW, SP3T Absorptive Switch

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6.0 to 18.0 GHz
1.6 W Peak, SP2T Reflective 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

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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

Digitally Tuned Attenuators

1.0 to 4.0 GHz, Voltage Variable Attenuator

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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

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

PMI PRODUCTS

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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

6.0 to 19.0 GHz, 2-Way Power Divider

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

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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
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Threshold Detectors
USB Products
PMI PRODUCTS

2.0 to 18.0 GHz, SDLVA

1.0 GHz, Frequency Discriminator

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

1.0 to 18.0 GHz
Limiting Amplifier

2.0 to 18.0 GHz
Digital Frequency Discriminator

0.75 to 1.25 GHz SDLVA

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26.5 to 40.0 GHz, Passive Amplitude Equalizer

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PMI PRODUCTS

1.0 to 20.0 GHz
6-Channel Switch Filter Bank

2.0 to 6.0 GHz
Integrated Microwave Assembly

2.0 to 18.0 GHz
Bi-Phase Modulator

18.0 to 40.0 GHz
Bi-Phase Modulator

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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

0.01 to 2.5 GHz, 100 W CW, 1 kW Peak, RF Limiter
18.0 to 40.0 GHz, Low Loss Diplexer
6.0 to 18.0 GHz, Filter/Detector

Low Pass Filter with 2400 MHz Cutoff Frequency

Bandpass Filter, centered at 160 MHz with a 3 dB Bandwidth of 20 MHz ±5%
PMI PRODUCTS

1.0 to 18.0 GHz
4 W CW 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

0.1 to 20.0 GHz
10 W Pulsed RF Limiter

10 MHz to 9.0 GHz, 100 W CW RF Limiter

1.0 to 18.0 GHz
3 W CW Limiter

2.0 to 18.0 GHz, +50 dBm Peak RF Limiter

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PMI PRODUCTS

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

- 4.0 to 4.5 GHz, Ultra-High Speed, High Sensitivity Threshold Detector
- 4.0 to 26.5 GHz, Zero Bias Schottky Detector
- 2.5 to 3.5 GHz, High Speed, DC-Coupled, Directional Detector
- 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
- 16.0 to 40.0 GHz, High Speed Threshold Detector
- 3.8 to 4.6 GHz, High Speed Threshold 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

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PMI PRODUCTS

10.0 GHz, Integrated Phase Shifter
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

30 MHz, Frequency Discriminator

6.0 to 18.0 GHz, Synthesizer

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

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Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
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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)
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Pulse Modulators (SPST)
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Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products
**PMI PRODUCTS**

**CW Immune EW Detector Module**

- **2.0 to 8.0 GHz**
- **8.0 to 18.0 GHz**

**Miniature Successive Detection Log Video Amplifier**

- **1.0 to 20.0 GHz**

**Detector Log Video Amplifier**

- **8.0 to 10.0 GHz**

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PMI PRODUCTS

6.0 to 18.0 GHz, I/Q Vector Modulator

1.0 to 18.0 GHz, Limiting Amplifier

85 MHz to 18.0 GHz, I/Q Vector Modulator

Custom Frequency Doubler Module

IF Logarithmic Amplifier (SDLVA)

24.0 to 40.0 GHz, Bandpass Filter

0.95 to 18.0 GHz, 8 Channel Switch Filter Bank

0.1 to 18.0 GHz, Threshold Detector

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PMI PRODUCTS

100 MHz to 18.0 GHz Transceiver (Phase II)

85 MHz to 2.0 GHz, 8 bit 360° Phase Shifter

500 MHz to 40.0 GHz USB Powered SP2T Switch

2.0 to 6.0 GHz, 8 Bit 360° Phase Shifter

4.0 to 18.0 GHz, Up/Down Converter

100 MHz to 18.0 GHz Transceiver (Phase III)

85 MHz to 2.0 GHz, 8 bit 360° Phase Shifter

Integrated Module

Double Sided 100 MHz to 18.0 GHz Switch Filter Bank

Vector Modulator

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1.0 to 18.0 GHz Channelized Receiver

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PMI PRODUCTS

11.2 to 14.6 GHz
Down Converter Module

840 MHz
Phase-Locked Oscillator

4.4 to 11.2 GHz
Dual Band Bandpass Filter Module

10 MHz
8-Way Amplified Power Divider

14.6 to 18.0 GHz
Down Converter Module

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3.0 to 3.5 GHz
Monopulse Comparator

20.2 to 21.2 GHz
Monopulse Circuit

9.0 to 10.0 GHz
Monopulse Comparator

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PMI PRODUCTS

11.825 GHz Band Pass Filter

DC to 26.0 GHz 5-Channel Switch Filter Bank

1.0 to 18.0 GHz Band Pass Filter

14.125 GHz Band Pass Filter

70 to 330 MHz Threshold Detector

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Threshold Detectors
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PMI PRODUCTS

- DC to 3.5 GHz Microstrip Low Pass Filter
- 1.0 to 18.0 GHz Portable Amplifier
- DC to 1.25 GHz Microstrip Low Pass Filter
- DC to 2.0 GHz Microstrip Low Pass Filter
- DC to 0.6 GHz Microstrip Low Pass Filter
- 6.0 to 18.0 GHz, 120 W CW (1.5 kW Peak), SP2T Reflective Switch
- 9.2 to 10.0 GHz, 200 W CW (1.6 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

8.0 to 12.0 GHz Amplifier

6.0 to 18.0 GHz
Portable Adjustable Threshold Detector

2.0 to 18.0 GHz
4-Way Power Divider

7519.95 MHz PDRO

0.2 to 18.0 GHz
8-Bit Digitally Tuned Attenuator

Amplifiers – Solid State
Attenuators – Variable/Programmable
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8.0 to 12.0 GHz Amplifier

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

8.0 to 12.0 GHz Amplifier

6.0 to 18.0 GHz
Portable Adjustable Threshold Detector

2.0 to 18.0 GHz
4-Way Power Divider

7519.95 MHz PDRO

0.2 to 18.0 GHz
8-Bit Digitally Tuned Attenuator

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8.0 to 12.0 GHz Amplifier

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

8.0 to 12.0 GHz Amplifier

6.0 to 18.0 GHz
Portable Adjustable Threshold Detector

2.0 to 18.0 GHz
4-Way Power Divider

7519.95 MHz PDRO

0.2 to 18.0 GHz
8-Bit Digitally Tuned Attenuator

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8.0 to 12.0 GHz Amplifier

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

8.0 to 12.0 GHz Amplifier

6.0 to 18.0 GHz
Portable Adjustable Threshold Detector

2.0 to 18.0 GHz
4-Way Power Divider

7519.95 MHz PDRO

0.2 to 18.0 GHz
8-Bit Digitally Tuned Attenuator

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Attenuators – Variable/Programmable
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8.0 to 12.0 GHz Amplifier

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

8.0 to 12.0 GHz Amplifier

6.0 to 18.0 GHz
Portable Adjustable Threshold Detector

2.0 to 18.0 GHz
4-Way Power Divider

7519.95 MHz PDRO

0.2 to 18.0 GHz
8-Bit Digitally Tuned Attenuator

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PMI PRODUCTS

13.0 to 14.0 GHz
8-Bit Programmable Attenuator

0.5 to 18.0 GHz
Dual Gain Amplifier

4.0 to 8.0 GHz
SP20T Absorptive Switch

328 to 335.5 MHz
7-Way Power Divider

30 MHz to 3.0 GHz
High Power Limiter

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4828.57 MHz
Band Pass Filter

2.0 to 12.0 GHz
Low Noise Amplifier

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PMI PRODUCTS

0.5 to 18.0 GHz
Dual Gain Amplifier

2.0 to 18.0 GHz
SP6T Reflective Switch

4.0 to 8.0 GHz
SP20T Absorptive Switch

328 to 335.5 MHz
7-Way Power Divider

30 MHz to 3.0 GHz
High Power Limiter

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PMI PRODUCTS

- 0.1 to 18.0 GHz
- SP3T Absorptive Switch

- 0.5 to 18.0 GHz
- 16-Way Power Divider

- 1.0 to 25.0 GHz
- Low Noise Amplifier

- 3.5 to 5.5 GHz
- Frequency Discriminator

- 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

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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
18.0 to 40.0 GHz DLVA
7 MHz DLVA
315 to 362 MHz SDLVA
0.5 to 2.0 GHz ERDLVA
0.7 to 1.3 GHz SDLVA
0.5 to 2.0 GHz DLVA
0.1 to 3.0 GHz SDLVA
0.2 to 2.5 GHz SDLVA
0.1 to 3.0 GHz SDLVA
2.5 to 4.9 GHz SDLVA
50 to 90 MHz SDLVA
50 MHz to 18.5 GHz DLVA

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Threshold Detectors
USB Products
PMI PRODUCTS

2.0 to 18.0 GHz
High Band Direction Finding Module

0.25 to 20.0 GHz
Low Noise Amplifier

0.1 to 18.0 GHz
Integrated Microwave Assembly

30 MHz to 18.0 GHz
Low Noise Amplifier

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30 MHz to 26.5 GHz
Low Noise Amplifier

18.0 to 40.0 GHz
Quad Phase & Amplitude Matched
Milimeter Wave Diplexer-Gain Module

1.0 to 40.0 GHz
Portable Amplifier

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2.0 to 18.0 GHz
Receiver Front-End IFM Subsystem

0.5 to 20.0 GHz
Low Noise Amplifier

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PMI PRODUCTS

2.0 to 4.0 GHz Frequency Discriminator

10 MHz to 6.0 GHz SP2T Reflective, 20 W Switch

12.0 to 18.0 GHz Frequency Discriminator

0.5 to 8.0 GHz SP2T Reflective, 50 W Switch

10 MHz to 8.0 GHz SP2T Reflective, 50 W Switch

70 MHz Frequency Discriminator

0.5 to 10.0 GHz SP2T Reflective, 10 W Switch

3.1 to 3.5 GHz Frequency Discriminator

6.0 to 18.0 GHz Frequency Discriminator

1.0 to 18.0 GHz SP2T Reflective, 10 W Switch

8.0 to 12.0 GHz Frequency Discriminator

8.0 to 12.0 GHz SP2T 10 W Switch

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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
PMI PRODUCTS

32.0 to 37.0 GHz
8-Bit Digitally Controlled Phase Shifter

2.0 to 18.0 GHz
2-Way Power Divider

85 MHz to 4.0 GHz
Digitally Controlled Analog Phase Shifter

2.0 to 18.0 GHz
12-Bit Vector Phase Shifter

18.0 to 40.0 GHz
2-Way Power Divider

0.1 to 18.0 GHz
2-Way Power Divider

0.2 to 10.0 GHz
8-Bit Digital Phase Shifter

5.0 to 18.0 GHz
Analog Phase Shifter

2.0 to 26.0 GHz
4-Way Power Divider

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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
PMI PRODUCTS

2 MHz to 18.0 GHz
Threshold Detector

50 MHz to 4.0 GHz
Threshold Detector

0.2 to 18.0 GHz
Threshold Detector

0.5 to 18.0 GHz
Threshold Detector

1.0 to 12.0 GHz
Threshold Detector

8.0 to 18.0 GHz
Threshold Detector

2.0 to 18.0 GHz
Threshold Detector

0.4 to 18.0 GHz
Threshold Detector

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EAST COAST FACILITY:
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Phone: 301-662-5019
0.25 to 35.0 GHz Low Noise Amplifier

0.1 to 0.3 GHz Voltage Controlled Attenuator

10 MHz to 6.0 GHz, 2.5 W CW Limiter

10 MHz to 6.0 GHz, 2.5 W CW Limiter

10 MHz to 6.0 GHz, 2.5 W CW Limiter

10 MHz to 12.0 GHz, +40 dBm CW Limiter

10 MHz to 12.0 GHz, +40 dBm CW Limiter

10 MHz to 17.0 GHz, +40 dBm CW Limiter

10 MHz to 17.0 GHz, +40 dBm CW Limiter

0.1 to 0.3 GHz Voltage Controlled Attenuator

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1.0 to 2.0 GHz, 200 W CW Limiter

50 MHz to 4.0 GHz, 1 W CW Limiter

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Phone: 301-662-5019

PMI PRODUCTS
PMI PRODUCTS

1.0 to 7.0 GHz Low Noise Amplifier

1.0 to 7.0 GHz Low Noise Amplifier

0.5 to 2.0 GHz Low Noise Amplifier

DC to 40.0 GHz Passive Equalizer

DC to 40.0 GHz Passive Equalizer

2.0 to 18.0 GHz SP8T Absorptive Switch

1.0 to 18.0 GHz SP2T Absorptive Switch

1.0 to 18.0 GHz SP4T Absorptive Switch

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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
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
PMI PRODUCTS

3.0 GHz 6-Bit Phase Shifter

2.0 to 18.0 GHz Diode Detector

29.8 to 30.2 MHz 7-Bit Attenuator

9.0 kHz to 30.0 GHz SP2T Absorptive Switch

29.8 to 30.2 MHz 7-Bit Attenuator

4.0 to 8.0 GHz SDLVA

Divers – 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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Systems – Fly Eye Radars
Threshold Detectors
USB Products

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Phone: 301-662-5019
PMI PRODUCTS

30 MHz to 40.0 GHz
Low Noise Amplifier

0.5 to 1.0 GHz
Bi-Phase Modulator/Shifter

DC to 18.0 GHz
Directional Coupler

160 MHz
Linear IF Gain Control Amplifier

2.0 to 18.0 GHz
2-Way Power Divider

60 MHz
Bandpass Filter

0.5 to 18.0 GHz
SP2T Absorptive Switch

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PMI PRODUCTS

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Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DLVs, ERDLVs & SDLVs
DTos, VCOs, PLO, DROS, & Frequency Synthesizers
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Systems – Fly Eye Radars
Threshold Detectors
USB Products
PMI PRODUCTS

0.5 to 8.0 GHz
SP2T Reflective, 50 W Switch

0.1 to 8.0 GHz
SP2T Reflective, 50 W Switch

0.7 to 1.3 GHz
SP4T Absorptive Switch Module

0.1 to 4.0 GHz SDLVA

8.0 to 11.0 GHz
Directional Coupler

0.5 to 20.0 GHz
Linear Amplifier Detector Module

140 MHz ± 25 MHz
Detector Preamp Module

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PMI PRODUCTS

2.0 to 18.0 GHz SDLVA

5.4 to 5.9 GHz Linear Amplifier Detector Module

0.2 to 2.5 GHz SDLVA

2.0 to 6.0 GHz EW Detector Module

6.0 to 18.0 GHz EW Detector Module

2.0 to 18.0 GHz SP2T Absorptive Switch

DC to 8.0 GHz SP2T Reflective Switch

10 MHz to 50.0 GHz 4 W CW Limiter

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PMI PRODUCTS

2.0 to 6.0 GHz

EW Detector Module

6.0 to 18.0 GHz

EW Detector Module

2.0 to 18.0 GHz

SP2T Absorptive Switch

DC to 8.0 GHz

SP2T Reflective Switch

10 MHz to 50.0 GHz 4 W CW Limiter

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PMI PRODUCTS

17.5 to 21.5 GHz Passive Amplitude Equalizer

17.6 to 21.6 GHz Passive Amplitude Equalizer

17.5 to 21.5 GHz Passive Amplitude Equalizer

17.6 to 21.6 GHz Passive Amplitude Equalizer

17.5 to 21.5 GHz Passive Amplitude Equalizer

17.6 to 21.6 GHz Passive Amplitude Equalizer

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17.6 to 21.6 GHz Passive Amplitude Equalizer

17.5 to 21.5 GHz Passive Amplitude Equalizer

17.6 to 21.6 GHz Passive Amplitude Equalizer

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PMI PRODUCTS

**Amplifiers – Solid State**
- Attenuators – Variable/Programmable
- Couplers (Quadrature, 180° & Directional)

**Detectors – RF/Microwave**
- DLVs, ERDLVs & SDLVs
- DTo, VCOs, PLO, DROs, & Frequency Synthesizers

**Filters & Switch**
- 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

**Switch Matrices**
- Switched Filter Banks
- Switches – Solid State
- Systems - Radar Sense & Avoid
- Systems – Fly Eye Radars
- Threshold Detectors
- USB Products

---

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Phone: 301-662-5019

---
PMI PRODUCTS

10 MHz to 50.0 GHz
4 W CW Limiter

6.0 to 18.0 GHz
10-Bit Digitally Controlled Phase Shifter

0.5 to 18.0 GHz
SP32T Absorptive Switch

0.15 to 6.1 GHz
Limiting Amplifier

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Amplifiers – Solid State
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SMT & QFN Products
Switch Matrices
Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products
PMI PRODUCTS

2.0 to 18.0 GHz
Limiting Amplifier

1.85 to 6.25 GHz
Limiting Amplifier

50 MHz to 2.5 GHz
Limiting Amplifier

2.0 to 18.0 GHz
Limiting Amplifier

1.0 to 12.0 GHz
Limiting Amplifier

6.0 to 18.0 GHz
Integrated Filter/Detector Assembly

2.0 to 18.0 GHz
Limiting Amplifier

1.0 to 18.0 GHz
Limiting Amplifier

3.1 to 3.5 GHz
Limiting Amplifier

2.0 to 18.0 GHz
Limiting Amplifier

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Amplifiers – Solid State
Attenuators – Variable/Programmable
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Systems – Fly Eye Radars
Threshold Detectors
USB Products
CUSTOMER AWARDS

Gold Medal for Quality Performance from BAE Systems

BAE Systems has awarded Planar Monolithics Industries, Inc. GOLD Medal for Quality Performance

<table>
<thead>
<tr>
<th>6 Month Commodity Best</th>
<th>QUALITY: 100% DELIVERY: 100%</th>
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</table>

Your Rating: Gold

Gold Medal for Quality Performance from BAE Systems

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EAST COAST FACILITY:
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CUSTOMER AWARDS

Exceptional Monthly Supplier Rating from Argon ST (Boeing)

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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
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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
CUSTOMER AWARDS

Exceptional Supplier Performance from General Atomics

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EAST COAST FACILITY:
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Phone: 301-662-5019
PLANAR MONOLITHICS INDUSTRIES, INC.

FACILITIES INFORMATION

7311-F & G GROVE ROAD, FREDERICK, MD:
- 10,800 sq. ft. Facility
- Executive Vice President’s Office
- Accounting and Human Resources Offices
- Components Manufacturing
- Sub-Assembly Manufacturing
- Hybrid Assembly
- 3,000 sq. ft. Class 100,000 ppm Clean Room
- Engineering Department
- Test Department
- Production Officer
- QA/QC Office
- Sales & Marketing
- Executive Offices
- 2 Conference Rooms
- High Power Equipment Test Laboratory

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.harillc.com and www.genesismicrowave.com

5715 INDUSTRY LANE, FREDERICK, MD:
- 2,500 sq. ft. Facility
- Conference Room
- 600 sq. ft. 10,000 ppm Clean Room
- Machine Shop
- Assembly & Test
- ESS Test Room
- Sub-Systems Assembly Manufacturing

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

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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Phone: 301-662-5019
<table>
<thead>
<tr>
<th>CUSTOMER</th>
<th>PROGRAM</th>
</tr>
</thead>
</table>
| **NORTHROP GRUMMAN CORPORATION**  
Baltimore, MD & Rolling Meadows, IL | CABIN FEVER  
CORVAIR  
EA-18G  
ICAP-III  
LR-100  
FALCON EDGE  
ALQ-188  
PDF  
F-15J  
RFCM – AC/MC-130J  
C130J  
SDLVA for AN/ALR-67(V) and AN/ALR-67(V2) |
| **BAE SYSTEMS, NH** | DEWS, F15 (AN/LQ-239)  
EPAWS, F15 (AN/ALQ-250)  
U2 PROGRAM (AN/ALQ-221)  
KNIGHT PROGRAM  
DARK HORSE  
ALE-55 |
| **MITSUBISHI-MELCO, JAPAN** | SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS (SDLVAs), F-2 / F15 LIMITERS & SOLID STATE SWITCHES FOR DESTROYER SHIP, TP-1 (HELIQUADE) & SUBMARINE, ASQ-2 (IEWS), ALQ-8 (ECM), SH-60, UP-3D, P-1 |
| **TOKYO-KEIKI, JAPAN** | CH 47 HELICOPTER, UH-60J HELICOPTER, ASQ-2 (IEWS), APR-4 (RWR), UH-X, HLR-108C |
| **NAVAL RESEARCH LAB, WASHINGTON, DC** | AMPLIFIED DETECTOR, RF MONITOR FOR ANACHOIC CHAMBER, 100 MHz TO 18 GHz TRANSCIEVER |
| **RAYTHEON MISSILE SYSTEMS, AZ** | SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs) & MALD-N |
| **L-3 COMMUNICATIONS, TX** | SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs)  
16 CHANNEL CUSTOM SWITCH FILTER BANK |
| **LOCKHEED MARTIN CO, AL** | MK92 FIRE CONTROL SYSTEM (FORM, FIT & FUNCTION SPARES) |
| **ISRAELI AIR FORCE (IAF), ISRAEL** | GUNN DIODE OSCILLATORS (F-16) |
| **ELBIT SYSTEMS, ISRAEL** | SOLID STATE SWITCHES WITH LOW VIDEO TRANSIENTS (NAVAL EW SYSTEMS), LNAs, LIMITERS |
| **WARNER ROBINS AFB, GA** | IF LOG AMPLIFIERS (FORM, FIT & FUNCTION SPARES), B-1B & CVR (CRYSTAL VIDEO RECEIVER) MODULE (ALQ-184) |

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## PROGRAMS

<table>
<thead>
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<tbody>
<tr>
<td>L-3 COMMUNICATIONS, UT</td>
<td>CUSTOM LIMITING AMPLIFIER</td>
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<tr>
<td>MECTRON, BRAZIL</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs) MARS-1, BRAZILIAN AF</td>
</tr>
<tr>
<td>RAYTHEON, CA</td>
<td>PEGASUS, CUSTOM IMA, ALQ-184, JAGUAR, SDLVA for AN/ALR-67(V3)</td>
</tr>
<tr>
<td>AIRBUS DEFENCE &amp; SPACE, GERMANY</td>
<td>CUSTOM SWITCHES</td>
</tr>
<tr>
<td>SAAB AB ELECTRONIC DEFENSE SYSTEMS, SWEDEN</td>
<td>CUSTOM AMPLIFIER, JAS 39 GRIPEN</td>
</tr>
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<td>BHARAT ELECTRONICS, INDIA</td>
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<td>L3-MICREO, AUSTRALIA</td>
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<td>CUSTOM INTEGRATED LIMITER/ATTENUATOR, AIRBORNE</td>
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<td>ASELSAN INC., TURKEY</td>
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<td>DIGITALLY TUNED ATTENUATORS</td>
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<td>ARGONST, VA</td>
<td>RF DISTRIBUTION UNIT</td>
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</table>

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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
# PROGRAMS

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<th>CUSTOMER</th>
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<td>L3 HARRIS, CLIFTON NJ</td>
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<tr>
<td>JPL, CA</td>
<td>LIMITER, AMPLIFIER, DIGITALLY TUNED ATTENUATORS, PHASE SHIFTERS, FREQUENCY DISCRIMINATORS</td>
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<td>PASTERNACK ENTERPRISES, CA</td>
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<td>56 NETWORKS</td>
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<td>BRAZILIAN NAVY/THALES</td>
<td>RF COMPONENTS FOR DF SYSTEM (MAGE MK3)</td>
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<td>ELDERS S.R.L., ITALY</td>
<td>ATTENUATORS, SDLVAs</td>
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<td>DANISH AIRFORCE, DENMARK</td>
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<td>NETHERLANDS MINISTRY OF DEFENSE, NETHERLANDS</td>
<td>SWITCHES</td>
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<td>FOCUS MICROWAVES, CANADA</td>
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<td>MC COUNTERMEASURES, CANADA</td>
<td>SDLVAs, FREQUENCY DISCRIMINATORS</td>
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<td>BAE, NY</td>
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<td>HUGHES (RAYTHEON)</td>
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<tr>
<td>LOCKHEED MARTIN, NY</td>
<td>EQUALIZERS FOR BLQ-10, E-2D ALQ-217 &amp; GRIFIN</td>
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<tr>
<td>NAVAL RESEARCH LABORATORY (NRL) BLOSSOM</td>
<td>40 GHz AMPLIFIER AND BIAS TEE</td>
</tr>
<tr>
<td>POINT RESEARCH FACILITY</td>
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<tr>
<td>TOSHIBA, JAPAN</td>
<td>ELINT, E2C</td>
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<tr>
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<td>CUSTOM THRESHOLD DETECTORS</td>
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<tr>
<td>ROYAL AUSTRALIAN NAVY</td>
<td>LOG AMP - CONDOR CS-5600 ESM (COLLINS CLASS SUBMARINE)</td>
</tr>
<tr>
<td>RHEINMETALL DEFENSE, ITALY</td>
<td>PLDROs FOR X-TAR-40, X-TAR-3D, AND KU-20</td>
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</tbody>
</table>

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Phone: 301-662-5019

sales@pmi-rf.com  
http://www.pmi-rf.com/about
# Orders Booked Statistics by Country

## 2014 through 2016

<table>
<thead>
<tr>
<th>Year</th>
<th>NO.</th>
<th>Country</th>
<th>% of Orders Booked</th>
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</tr>
<tr>
<td></td>
<td>19</td>
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<td>85.39%</td>
</tr>
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</table>

### 2015:

<table>
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<td>76.18%</td>
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### 2016:

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<tr>
<td>18</td>
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<td>69.40%</td>
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</table>

### 2014 Total: 100.00%

### 2015 Total: 100.00%

### 2016 Total: 100.00%

---

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## Orders Booked Statistics by Country
### 2017 through 2019

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<td>63.85%</td>
<td>2016 TOTAL: 100.00%</td>
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</table>

**2017 TOTAL: 100.00%**

---

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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
Amplifiers – Solid State
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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
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Random Vibration

Thermal Shock

Shock Testing

Hermetic Package Testing

Amplifiers – Solid State
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SMT & QFN Products
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Switched Filter Banks
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Threshold Detectors
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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
PMI EAST COAST OPERATIONS

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HAAS DT1 CNC Milling Machine
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Mazak Nexus 430A-II CNC Milling Machine
PMI East Coast Operations
Manufacturing and Standards

- **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)
  - (3) 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)
  - (2) Agilent N8975D (10 MHz to 26.5 GHz)

- **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 to 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 6873D
  - (2) Agilent 33522A Arbitrary Waveform Generator
  - (2) Keysight E8257A PSG Analog Signal Generator
  - (5) Keysight E8257D PSG Analog Signal Generator
  - (1) Siglent SDG1062X and Siglent SDG1032X Waveform Generators

- **Oscilloscopes:**
  - (1) Tektronix TDS210
  - (1) Tektronix TDS2024C
  - (1) Agilent DS06034A
  - (1) Keysight DS08204B
  - (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
  - (1) Spanawave GT-1051B Power Amplifier, 10 MHz to 50 GHz, 1/2 Watt to 40 GHz, 1/4 Watt to 50 GHz

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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 74630E-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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Amplifiers – Solid State
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HAAS DT1 CNC Milling Machine

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Phone: 301-662-5019
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:
- Keysight - Genesys S/Filter Synthesis and Simulation
- Ansys – HFSS, High Frequency Structural Simulator
- Exact MAX – MRP/ERP Software
- AutoCAD 2005
- AutoCAD 2013
- Gibbs Cam

Standards:
- ISO9001
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- 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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PMI West Coast Operations
Manufacturing and Standards
International Traffic in Arms Regulations (ITAR)

- 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
- NIST SP 800-171 and DFARS 252.204-7012 Self-Certified and Compliant
- 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 Quality Registrars (IQR) Corporation

Planar Monolithics Industries, Inc.
Headquarters: 23145 Grove Road, Frederick, MD 21704 USA
Site 2: Market St. 7713 Unit 114, Frederick, MD 21704 USA
Site 3: 6402 Bluffside Court, Suite #1, El Dorado Hills, CA 95762 USA

Additional Site Location: No, See Appendix A for additional information

Registration No.: 18-120804-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

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

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