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 62 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, 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.

(For Virtual Video on PMI click: https://www.pmi-rf.com/multimedia-video)

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Phone: 916-542-1401

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

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http://www.pmi-rf.com/about
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 Monolithic Microwave Integrated Circuits) Components, Super components, 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.

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Principles of PMI Organization

Key To Success in Business and Personal Career

- Daily Take:  
  - Vitamin "A" - Attention, Action, Attitude; Vitamin "B" - Brevity, Bold, 
  - Bashful, Vitamin "C" - Commitment, Communication, Coordination, 
  - Vitamin "D" - Determination, Discipline, Dedication. 

- Employees Are One's Key Asset. 
- Integrity, Honesty and Credibility Are Most Important. 
- Responsibility, Authority and Accountability at All Levels. 
- The Back Stops At Ones Table. Don't Be Reactive Be Proactive. 
- Customer Is Always Right. Always Answer & Reply Telephone Calls. 
- Handshake Is More Important Than Legal Agreements. 
- Always Act With Honor, Duty and Responsibility. 
- Honor Word of Mouth and Commitments At Any Cost. 
- Think and Dream Big. Aim High. Think Before You Leap. 
- Have Trust and Faith in God in Everything One Does. 
- Run Oppositions With Trust and Faith. Don't Ever Be Emotional. 
- Treat Everyone With Respect & Dignity. 
- Learn to Say Thank You Always. 
- Be Humble, Kind and Generous. 
- Leaders Have To Set An Example and Inspire Others To Follow. 
- Assist and Guide Others in Need, Make Friends & Influence People. 
- Assist and Help Others To Be Successful. 
- Reputation Must Be Guarded Always. 
- Character, Conduct, Principles & Behavior Do Count. 
- Don't Be Penny Wise, Dollar Foolish. 
- It Is Not What You Do that Counts But What Results You Achieve. 
- Discuss Solutions First, Then Problems. 
- Excuses Are Not A Solution. Always Be On Time. 
- Always Strive For Excellence & The Best. Don't the "I"s & Cross The "T"s. 
- Mediocrity Has No Place in Business & Life. 
- Be Creative & Imaginative. Always Have A Role Model Or Have To Follow. 
- Don't Follow The Jones. Use Common Sense. 
- A Job Should Be A Hobby To Enjoy & Put Your Heart Into It. Otherwise It Becomes Work, Tiresome & Inexcusable. 
- When Opportunity Strikes or Appears Grab It. 
- Take the Initiative & Be A Self-Starter, Don't Wait To Be Told, Don't Procrastinate. 
- When A Decision Is 49% For & 51% Against, Then Either Decision Will Be Correct. 
- When There Is A Will There Is A Way. 
- Time & Tide Wait for None. 

2nd October, 2001

President & CEO:
Ashok Gorwara

Note: Click image to view pdf document.
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

As a manufacturer PMI utilizes our own designs for all components, integrated modules and subsystems:

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DC to 62 GHz
Application of PMI DC to 62 GHz Components & Sub-Systems

Planar Monolithics Industries, Inc. has been in business for over 30 years as a world-class designer and manufacturer of electronic components and subsystems for defense applications such as Receiver Front-Ends, Synthesizers, and Transceivers. A large variety of RF components and integrated modules have been developed to 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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Application of PMI DC to 62 GHz Components & Sub-Systems

TYPICAL EW, ECM, ESM RECEIVER FRONT-END

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

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Application of PMI DC to 62 GHz Components & Sub-Systems

TUNER / SUPERHETERODYNE FRONT-END
Application of PMI DC to 62 GHz Components & Sub-Systems

TYPICAL TRANSCEIVER / TRANSPONDER BLOCK DIAGRAM

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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 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**
PMI PRODUCTS – Solid-State Amplifiers

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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PMI PRODUCTS – Solid State Amplifiers

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PMI PRODUCTS – Solid-State Amplifiers

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

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

0.5 to 50.0 GHz, LNA with 30 dB Gain

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

10 MHz to 6.0 GHz Portable Amplifier with 30 dB Gain

10.0 MHz to 22.0 GHz, Ultra LNA w/14 dB Gain & 3.4 dB Noise Figure

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Amplifiers - Solid State
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PMI PRODUCTS – Solid State Amplifiers

30 MHz to 26.5 GHz
Low Noise Amplifier

4.0 to 96.0 MHz
Low Noise Amplifier

0.25 to 20.0 GHz
Low Noise Amplifier

0.5 to 2.0 GHz
Low Noise Amplifier

0.5 to 40.0 GHz
Low Noise Amplifier

6.0 to 18.0 GHz
Low Noise Amplifier

1.0 to 25.0 GHz
Low Noise Amplifier

1.0 to 7.0 GHz
Low Noise Amplifier

1.0 to 7.0 GHz
Low Noise Amplifier
PMI PRODUCTS – Solid State Amplifiers

160.0 MHz
Linear IF Gain Control Amplifier

10.0 MHz to 20.0 GHz
Low Noise Amplifier

0.1 to 16.0 GHz
Limiting Amplifier

0.15 to 6.1 GHz
Limiting Amplifier

1.0 to 40.0 GHz
Portable Amplifier

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Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVs, ERDLVs & SDLVs
Filters & Switched Filter Banks
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Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

PMI PRODUCTS – Attenuators (Variable, Programmable, Fixed)

0.5 to 18.0 GHz, 20 dB Switched Bit Attenuator

1.0 to 18.0 GHz, 60 dB Digital Attenuator

Digitally Tuned Attenuators

0.1 to 0.3 GHz Voltage Controlled Attenuator

13.0 to 14.0 GHz 8-Bit Programmable Attenuator

2.0 to 18.0 GHz 10-Bit Programmable Attenuator

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PMI PRODUCTS – Attenuators
(Variable, Programmable, Fixed)

0.1 to 0.3 GHz
Voltage Controlled Attenuator

30 MHz to 2.5 GHz
10-Bit Programmable Attenuator

29.8 to 30.2 MHz
63.5 dB in 0.5 dB steps
7-Bit 3.0° Phase Invariant Attenuator

3.1 to 3.5 GHz
Bi-Directional Variable Attenuator

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1.0 to 18.0 GHz
7-Bit Programmable Attenuator

29.8 to 30.2 MHz
63.5 dB in 0.5 dB steps
7-Bit 1.5° Phase Invariant Attenuator

DC to 2.0 GHz, Electro-mechanical
STEP Attenuator

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PMI PRODUCTS – Bi-Phase Modulators

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PMI PRODUCTS - Couplers
(Quadrature, 180, Directional)

DC to 18.0 GHz
Directional Coupler

5.0 to 10.0 GHz
Hybrid Coupler

8.0 to 11.0 GHz
Directional Coupler

3 dB, 90° Quadrature Couplers

7.0 to 18.0 GHz
90° Hybrid Coupler

0.02 to 6.0 GHz
90° Hybrid Coupler

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PMI PRODUCTS – Detectors
(RF / Microwave)

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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18.0 to 40.0 GHz, Low Noise, Tunnel Diode Detector
0.5 to 18.0 GHz, High Speed, High Sensitivity Diode Detector
10 MHz to 18.0 GHz Low Noise Tunnel Diode Detector

0.5 to 18.0 GHz, High Speed, High Sensitivity Diode Detector
2.0 to 18.0 GHz Diode Detector
4.0 to 26.5 GHz, Zero Bias Schottky Detector

6.0 to 18.0 GHz Biased Schottky Diode Detector
1.0 to 18.0 GHz Zero-Bias Schottky Detector
2.0 to 18.0 GHz, High Speed, High Sensitivity Diode Detector

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PMI PRODUCTS – Detectors (RF / Microwave)

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
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0.5 to 20.0 GHz
Linear Amplifier Detector Module

4.0 to 26.5 GHz,
Zero Bias Schottky Detector

5.4 to 5.9 GHz
Linear Amplifier Detector Module

1.0 to 18.0 GHz,
Zero Bias Schottky Detector

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

1.0 to 20.0 GHz,
Zero Bias Schottky Detector

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

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http://www.pmi-rf.com/about
PMI PRODUCTS – DLVAs, ERLVAs, SDLVAs & Log Amps

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Threshold Detectors
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PMI PRODUCTS - DLVAs, ERLVAs, SDLVAs & Log Amps

- 0.7 to 1.3 GHz IF Logarithmic Amplifier (SDLVA)
- 0.5 to 4.0 GHz SDLVA
- 2.5 to 4.9 GHz SDLVA
- 0.1 to 2.0 GHz Miniature SDLVA
- 0.5 to 2.0 GHz ERDLVA
- 0.5 to 2.0 GHz DLVA
- CW Immune, Crystal Video Receiver
- Detector Log Video Amplifier

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Note: Click photo to view product details.
PMI PRODUCTS – DLVAs, ERLVAs, SDLVAs & Log Amps

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State Systems
- Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

7.0 to 18.0 GHz, 75 dB DLVA
2.0 to 18.0 GHz, 65 dB CW Immune ERDLVA
6.0 to 18.0 GHz, SDLVA
0.5 to 18.0 GHz, 50 dB DLVA
0.05 to 18.0 GHz, 70 dB SDLVA
100 to 700 MHz, 55 dB SDLVA
700 to 1250 MHz, 70 dB SDLVA

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DLVA

0.2 to 2.5 GHz SDLVA

1.0 to 20.0 GHz SDLVA

4.0 to 8.0 GHz SDLVA

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PMI PRODUCTS – Filters & Switched Filter Banks

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- **Bi-Phase Modulators**
- **Couplers (Quadrature, 180, Directional)**
- **Detectors - RF / Microwave**
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Bandpass Filter, centered at 160 MHz with a 3 dB Bandwidth of 20 MHz ± 5%

Low Pass Filter with 2400 MHz Cutoff Frequency

2.5 to 18.0 GHz High Pass Filter

24.0 to 40.0 GHz, Bandpass Filter

750 MHz Cavity Filter with 500 MHz, 1 dB Bandwidth

Miniature, 2 Channel Switch Filter Bank

11.0 GHz Band Pass Filter

Note: Click photo to view product details.

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

Low Pass Filter with 2400 MHz Cutoff Frequency

2.5 to 18.0 GHz High Pass Filter

24.0 to 40.0 GHz, Bandpass Filter

750 MHz Cavity Filter with 500 MHz, 1 dB Bandwidth

Miniature, 2 Channel Switch Filter Bank

11.0 GHz Band Pass Filter

Note: Click photo to view product details.
PMI PRODUCTS – Filters & Switched Filter Banks

- 6.0 to 18.0 GHz, Synthesizer, Switch Filter Bank, Amplifier Module
- 11.825 GHz Band Pass Filter
- 14.125 GHz Band Pass Filter
- 1.0 to 18.0 GHz Band Pass Filter
- 4828.57 MHz Band Pass Filter
- DC to 26.0 GHz 5-Channel Switch Filter Bank
- 16.0 GHz Fo, 2.0 GHz Bandwidth, Cavity Filter

Note: Click photo to view product details.

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60 MHz Bandpass Filter
DC to 1.25 GHz Microstrip Low Pass Filter
DC to 2.0 GHz Microstrip Low Pass Filter
DC to 3.5 GHz Microstrip Low Pass Filter
DC to 10.0 GHz Microstrip Low Pass Filter
DC to 6.0 GHz Microstrip Low Pass Filter

8 to 22 GHz High Pass Filter

3.4 GHz Dual Band Bandpass Filter Module

11.2 to 18.0 GHz Dual Band Bandpass Filter Module

850 MHz Bandwidth Amplified Filter Module

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DC to 4.4 GHz
Low Pass Filter

DC to 6.4 GHz
Low Pass Filter

4.4 to 6.4 GHz
Band Pass Filter

6.4 to 8.4 GHz
Band Pass Filter

10.4 to 12.4 GHz
Band Pass Filter

DC to 8.4 GHz
Low Pass Filter

DC to 10.4 GHz
Low Pass Filter

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PMI PRODUCTS – Filters & Switched Filter Banks

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- USB Products

- Using Source Control Drawings (SCD), PMI can offer a complete solution to meet or exceed the electrical, mechanical and environmental specifications.

- Specializing in aftermarket technology manufacturing and support for discontinued RF components, electronic circuits, digital circuits and Integrated circuits.

- PMI has the technical expertise to manufacture, supply and support these requirements.

- PMI is dedicated to assuring our customer base that older discontinued products will continue to be available.

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PMI PRODUCTS – Frequency Converters

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PMI PRODUCTS – Frequency Sources

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVs, ERDLVs & SDLVs
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PMI PRODUCTS - Frequency Discriminators & IFM

Note: Click photo to view product details.

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PMI PRODUCTS - Frequency Discriminators & IFM

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PMI PRODUCTS – Gain & Loss Equalizers

Note: Click photo to view product details.
PMI PRODUCTS – Gain & Loss Equalizers

25.0 to 27 GHz
Passive Amplitude Equalizer

32.5 to 36.5 GHz
Passive Amplitude Equalizer

26.5 to 40.0 GHz, 1.5 dB
Passive Amplitude Equalizer

DC to 40.0 GHz
Passive Equalizer

DC to 20.0 GHz
Passive Equalizer

DC to 40.0 GHz
Passive Equalizer

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PMI PRODUCTS - Integrated MIC/MMIC Assemblies (IMAs)

2.0 to 6.0 GHz
Integrated Microwave Assembly

0.5 to 18.0 GHz, Custom Phase (±10°) & Amplitude (±1.5 dB) Matched Integrated Modules/Assemblies

21.0 GHz, Beam Forming Monopulse Circuit

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

Note: Click photo to view product details.

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PMI PRODUCTS - Integrated MIC/MMIC Assemblies (IMAs)

1.0 to 18.0 GHz
Channelized Receiver

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**PMI PRODUCTS – I/Q Vector Modulators**

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**Note:** Click photo to view product details.

- **2.0 to 18.0 GHz, I/Q Vector Modulator**
- **6.0 to 18.0 GHz, I/Q Vector Modulator**
- **8.5 to 10.0 GHz, Phase Shifter - I/Q High Speed Modulator**
- **0.5 to 2.0 GHz, I/Q Vector Modulator**
- **85 MHz to 18.0 GHz, I/Q Vector Modulator**

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PMI PRODUCTS – Limiters (RF & Microwave)

26.5 to 40.0 GHz
20 W Peak Limiter

26.5 to 40.0 GHz
20 W Peak Limiter

26.5 to 40.0 GHz
20 W Peak Limiter

10 MHz to 35.0 GHz
25 W CW Limiter

32.0 to 36.0 GHz
20 W Peak Limiter

18.0 to 40.0 GHz
1 W CW Limiter

35.5 GHz ± 500 MHz
20 W Peak Limiter

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0.01 to 2.5 GHz, 100 W CW, 1 kW Peak, RF Limiter

0.4 to 2.0 GHz, Coaxial Limiter

0.1 to 2.0 GHz Limiter

0.5 to 8.0 GHz, Active Limiter

2.0 to 18.0 GHz, +50 dBm Peak RF Limiter

18.0 to 40.0 GHz, Low Loss Diplexer

20 MHz to 20.0 GHz Limiter

500 MHz to 18.0 GHz High Power Limiter

14.65 to 15.35 GHz Integrated Limiter and Attenuator

0.5 to 8.0 GHz, Active Limiter

Note: Click photo to view product details.
PMI PRODUCTS – Limiters
(RF & Microwave)

10 MHz to 9.0 GHz, 100 W CW RF Limiter

10 MHz to 14.0 GHz, 100 W CW RF Limiter

0.03 to 3.0 GHz, High Power Limiter

10 MHz to 18.0 GHz, 20 W CW RF Limiter

20 MHz to 18.0 GHz, 80 W CW RF Limiter

20 MHz to 15.0 GHz, 100 W CW RF Limiter

20 MHz to 18.0 GHz, 100 W CW RF Limiter

1.0 to 18.0 GHz, 4 W CW RF Limiter

0.1 to 20.0 GHz, 10 W Pulsed RF Limiter

1.0 to 18.0 GHz, 3 W CW Limiter

Note: Click photo to view product details.

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Phone: 916-542-1401

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Phone: 301-662-5019

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http://www.pmi-rf.com/about
PMI PRODUCTS – Limiters (RF & Microwave)

Note: Click photo to view product details.

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Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products
PMI PRODUCTS – Limiters (RF & Microwave)

Amplifiers - Solid State
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10 MHz to 6.0 GHz
2.5 W CW Limiter

10 MHz to 12.0 GHz
+40 dBm CW Limiter

10 MHz to 17.0 GHz,
+40 dBm CW Limiter

50 MHz to 4.0 GHz,
1 W CW Limiter

150 MHz to 5.0 GHz
200 W CW Limiter

300 MHz to 1.0 GHz
360 W CW Limiter

0.3 to 8.0 GHz
200 W CW Limiter

1.0 to 2.0 GHz
200 W CW Limiter

2.0 to 4.0 GHz,
1 W CW Limiter

10 MHz to 1.0 GHz
200 W CW Limiter

10 MHz to 1.7 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

1.0 to 2.0 GHz
200 W CW Limiter

2.0 to 4.0 GHz,
1 W CW Limiter

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Amplifiers - Solid State  
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Systems - Radar Sense & Avoid  
Systems - Fly Eye Radar  
Threshold Detectors  
USB Products  

6.0 to 20.0 GHz  
Double Balanced Mixer  

4.0 to 12.0 GHz  
Double Balanced Mixer  

8.0 to 12.0 GHz  
Image Reject Mixer  

2.0 to 18.0 GHz  
Active Mixer  

0.5 to 18.0 GHz  
Divide-by-4 Prescaler  

Note: Click photo to view product details.

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PMI PRODUCTS – Monopulse Comparators

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Amplifiers - Solid State
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PMI PRODUCTS – Monopulse Comparators

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PMI PRODUCTS - Multifunction Integrated Assemblies (IMAs)

- Amplifiers - Solid State
- Attenuators - Variable/Programmable
- Bi-Phase Modulators
- Couplers (Quadrature, 180, Directional)
- Detectors - RF / Microwave
- DLVs, ERDLVs & SDLVs
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*Note: Click photo to view product details.*

- 2.6 to 5.2 GHz
  High Speed Integrated Module

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

- 0.1 to 18.0 GHz Transceiver Module

- 0.1 to 18.0 GHz Transceiver

- Double Sided, 100 MHz to 18.0 GHz
  6 Channel Switch Filter Bank

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PMI PRODUCTS - Phase Shifters & BI-Phase Modulators

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6.0 to 18.0 GHz, 360° Digital Phase Shifter
8.0 to 10.0 GHz, 360° Digital Phase Shifter
6.0 to 18.0 GHz 10-Bit Digitally Controlled Phase Shifter
2.0 to 8.0 GHz, 8 Bit, 360° Digital Phase Shifter

Note: Click photo to view product details.
PMI PRODUCTS - Phase Shifters & BI-Phase Modulators

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5.4 to 5.9 GHz, Digitally Controlled Phase Shifter

5.0 to 18.0 GHz
8-Bit Digital Phase Shifter

6.0 to 18.0 GHz
8-Bit Digitally Controlled Phase Shifter

0.2 to 10.0 GHz
8-Bit Digital Phase Shifter

0.5 to 2.0 GHz
8-Bit Digital Phase Shifter

2.0 to 18.0 GHz
12-Bit Vector Phase Shifter

6.0 to 18.0 GHz
8-Bit Digitally Controlled Phase Shifter

5.0 to 18.0 GHz
Analog Phase Shifter

5.4 to 5.9 GHz, Digitally Controlled Phase Shifter

Note: Click photo to view product details.
PMI PRODUCTS - Phase Shifters & Bi-Phase Modulators

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
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PMI PRODUCTS - Power Dividers/Combiners (Passive & Active)

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PMI PRODUCTS - Power Dividers/Combiners (Passive & Active)

Note: Click photo to view product details.
PMI PRODUCTS - Power Dividers/Combiners (Passive & Active)

- Amplifiers - Solid State
- Attenuators - Variable/Programmable
- Bi-Phase Modulators
- Couplers (Quadrature, 180, Directional)
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PMI PRODUCTS - Power Dividers/Combiners (Passive & Active)

- 6.0 to 19.0 GHz 2-Way Power Divider
- 2.0 to 18.0 GHz 16-Way Power Divider
- 1.0 to 4.4 GHz 4-Way Power Divider
- 0.5 to 2.0 GHz High Isolation 8-Way Power Divider

Note: Click photo to view product details.
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
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Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

**PMI PRODUCTS - Power Dividers/Combiners (Passive & Active)**

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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 18.0 GHz 2-Way Power Divider

2.0 to 26.0 GHz 2-Way Power Divider

2.0 to 26.5 GHz 2-Way Power Divider

4.0 to 8.0 GHz 2-Way Power Divider

6.0 to 12.0 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

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

**Note:** Click photo to view product details.
PMI PRODUCTS - Power Dividers/Combiners (Passive & Active)

0.5 to 18.0 GHz
8-Way Power Divider

0.5 to 20.0 GHz
8-Way Power Divider

0.5 to 23.0 GHz
8-Way Power Divider

1.0 to 18.0 GHz
8-Way Power Divider

1.0 to 20.0 GHz
8-Way Power Divider

2.0 to 18.0 GHz
8-Way Power Divider

2.0 to 20.0 GHz
8-Way Power Divider

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0.5 to 18.0 GHz
8-Way Power Divider

0.5 to 20.0 GHz
8-Way Power Divider

0.5 to 23.0 GHz
16-Way Power Divider

Note: Click photo to view product details.
PMI PRODUCTS – Pulse Modulators (SP1T)

0.1 to 18.0 GHz Absorptive Transfer Switch
2.0 to 4.0 GHz Absorptive Transfer Switch
8.0 to 12.0 GHz Reflective Transfer Switch
6.0 to 18.0 GHz, High Speed Absorptive Transfer Switch
1.0 to 18.0 GHz, High Speed Absorptive Transfer Switch
DC to 18.0 GHz Absorptive Transfer Switch
DC to 18.0 GHz Absorptive Transfer Switch
12.0 to 18.0 GHz, High Speed Absorptive Transfer Switch
DC to 40.0 GHz SPST Absorptive Switch

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PMI PRODUCTS - Rack and Chassis Mount Products

Note: Click photo to view product details.
PMI PRODUCTS - Receiver Front Ends & Transceivers

2.0 to 18.0 GHz Direction Finding Receiver Front End

100 MHz to 18.0 GHz Transceiver (Phase III)

Note: Click photo to view product details.

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PMI PRODUCTS - Single Sideband Modulators

50 MHz to 1.0 GHz
Single Sideband Modular

500 MHz to 2.5 GHz
Single Sideband Modular

Note: Click photo to view product details.

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PMI PRODUCTS - SMT & QFN Products

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0.1 to 2.0 GHz Miniature SDLVA
14.4 to 15.4 GHz RF Limiter & Low Noise Amplifier
10 MHz to 62.0 GHz High Power Limiter
13.4 to 14.2 GHz High Power Switch Limiter
18.0 to 40.0 GHz High Power Limiter
0.7 to 1.3 GHz Miniature SDLVA
14.4 to 15.4 GHz High Power SPST Switch

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PMI PRODUCTS – Switch Matrices

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PMI PRODUCTS - Solid State Switches

20 MHz to 18.0 GHz, SP8T

GPO or Conventional Coaxial Connectors

20 Watt Surface Mount SPDT

50 MHz to 40.0 GHz, SP4T

18.0 to 40.0 GHz SPST

2.0 to 20.0 GHz SP6T Absorptive Switch

20 MHz to 18.0 GHz, SP8T

SPST to SP64T Switch Designs

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Switches - Solid-State Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
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USB Products

PMI PRODUCTS – Solid State Switches

- 7.0 to 18.0 GHz
- 1 W CW, SP6T Absorptive Switch

- 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

- 2.0 to 4.0 GHz
- 300 W Peak, SP2T Reflective Switch

- 4.0 to 8.0 GHz
- 300 W Peak, SP2T Reflective Switch

- 6.0 to 18.0 GHz
- 1 W Average, SP4T Absorptive Switch

Note: Click photo to view product details.

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Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense &
Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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

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

6.0 to 18.0 GHz, 50 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

8.0 to 12.0 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

0.5 to 18.0 GHz,
100 W Reflective SP2T

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

Note: Click photo to view product details.

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 – Solid state Switches

- Amplifiers - Solid State
- Attenuators - Variable/Programmable
- Bi-Phase Modulators
- Couplers (Quadrature, 180, Directional)
- Detectors - RF / Microwave
- DLVs, ERDLVs & SDLVs
- Filters & Switched Filter Banks
- Form, Fit, Functional Products & Services
- Frequency Converters
- Frequency Sources
- Frequency Discriminators & IFM
- Frequency Synthesizers
- Gain & Loss Equalizers
- Integrated MIC/MMIC Assemblies (IMAs)
- IQ Vector Modulators
- Limiters - RF / Microwave
- Log Amps
- Miscellaneous Products
- Monopulse Comparators
- Multifunction Integrated Assemblies (IMAs)
- Phase Shifters & Bi-Phase Modulators
- Power Dividers/Combiners (Passive & Active)
- Pulse Modulators - SP1T
- Rack & Chassis Mount Products
- Receiver Front Ends & Transceivers
- Single Side Band Modulators
- SMT & QFN Products
- Switch Matrices
- Switch Filter Banks
- Switches - Solid-State Systems
- - Radar Sense & Avoid
- - Systems - Fly Eye Radar
- - Threshold Detectors
- - USB Products

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Note: Click photo to view product details.

0.1 to 18.0 GHz
SP12T Absorptive Switch

0.5 to 18.0 GHz
SP20T Absorptive Switch

0.5 to 40.0 GHz
SP5T Absorptive Switch

0.1 to 50.0 GHz
SP2T Absorptive Switch

2.0 to 18.0 GHz
SP6T Reflective Switch

0.5 to 40.0 GHz
SP8T Absorptive Switch

7.0 to 18.0 GHz
SP20T Absorptive Switch

DC to 40.0 GHz
SPST Absorptive Switch

0.1 to 50.0 GHz
SP4T Absorptive Switch

0.5 to 20.0 GHz
SP12T Absorptive Switch

75
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
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Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

PMI PRODUCTS – Solid State Switches

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0.1 to 18.0 GHz
SP3T Absorptive Switch

0.1 to 8.0 GHz
SP2T Reflective, 50 W Switch

2.0 to 18.0 GHz
SP2T Absorptive Switch

0.5 to 8.0 GHz
SP2T Reflective Switch

100 MHz to 50.0 GHz
SP8T Absorptive Switch

4.0 to 8.0 GHz
SP20T Absorptive Switch

0.7 to 1.3 GHz
SP4T Absorptive Switch Module

DC to 8.0 GHz
SP2T Reflective Switch

Note: Click photo to view product details.

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http://www.pmi-rf.com/about
PMI PRODUCTS – Solid State Switches

- 9.0 kHz to 30.0 GHz SP2T Absorptive Switch
- 10 MHz to 6.0 GHz SP2T Reflective, 20 W Switch
- 1.0 to 18.0 GHz SP4T Absorptive Switch
- 8.0 to 12.0 GHz SP2T 10 W Switch
- 10 MHz to 8.0 GHz SP2T Reflective, 50 W Switch
- 1.0 to 18.0 GHz SP2T Reflective, 10 W Switch
- 0.5 to 10.0 GHz SP2T Reflective, 10 W Switch
- 0.5 to 8.0 GHz SP8T Absorptive Switch
- 2.0 to 18.0 GHz SP8T Absorptive Switch
- Note: Click photo to view product details.

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EAST COAST FACILITY:
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Frederick, MD 21704 •USA•
Phone: 301-662-5019
PMI PRODUCTS – Solid State Switches

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVs, ERDLVs & SDLVs
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Note: Click photo to view product details.
PMI PRODUCTS – Radar Sense & Avoid Systems

3DR Solo Drone with PMI Radar Sense & Avoid Model No. RSAAS-001

Sense and Avoid System for Small UAS

Note: Click photo to view product details.

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PMI PRODUCTS – Fly Eye Radar Systems

PASSIVE RADAR FOR SMALL UAS

Note: Click photo to view product details.
PMI PRODUCTS – Fly Eye Radar Systems

MINE DETECTION, GROUND PENETRATING RADAR ON A TETHERED DRONE

Note: Click photo to view product details.

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PMI PRODUCTS – Fly Eye Radar Systems

Sense & Avoid Radar for UAS

Note: Click photo to view product details.

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PMI PRODUCTS – Fly Eye Radar Systems

Passive Small Projectile Tracking Radar

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DETECTORS - RF / MICROWAVE
DLVAs, ERDLVAs & SDLVAs
FILTERS & SWITCHED FILTER BANKS
FORM, FIT, FUNCTIONAL PRODUCTS & SERVICES
FREQUENCY CONVERTERS
FREQUENCY SOURCES
FREQUENCY DISCRIMINATORS & IFM
FREQUENCY SYNTHESIZERS
GAIN & LOSS EQUALIZERS
INTEGRATED MIC/MMIC ASSEMBLIES (IMAs)
IQ VECTOR MODULATORS
LIMITERS - RF / MICROWAVE
LOG AMPS
MISCELLANEOUS PRODUCTS
MONOPULSE COMPARATORS
MULTIFUNCTION INTEGRATED ASSEMBLIES (IMAs)
PHASE SHIFTERS & BI-PHASE MODULATORS
POWER DIVIDERS/COMBINERS (PASSIVE & ACTIVE)
PULSE MODULATORS - SP1T
RACK & CHASSIS MOUNT PRODUCTS
RECEIVER FRONT ENDS & TRANSCIEVERS
SINGLE SIDE BAND MODULATORS
SMT & QFN PRODUCTS
SWITCH MATRICES
SWITCH FILTER BANKS
SWITCHES - SOLID-STATE
SYSTEMS - RADAR SENSE & AVOID
SYSTEMS - FLY EYE RADAR
THRESHOLD DETECTORS
USB PRODUCTS

RF/MICROWAVE IMAGING RADAR

Note: Click photo to view product details.
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
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PMI PRODUCTS - Threshold Detectors

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Note: Click photo to view product details.
PMI PRODUCTS - Threshold Detectors

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EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA
Phone: 301-662-5019
PMI PRODUCTS – USB Products

50 MHz to 18.0 GHz, 12 dB Gain
USB Powered LNA

500 MHz to 18.0 GHz
USB Powered SP2T Switch

50 MHz to 40.0 GHz, 12 dB Gain
USB Powered LNA

100 MHz to 40.0 GHz, 30 dB
USB Attenuator

100 MHz to 18.0 GHz, 30 dB
USB Attenuator

Note: Click photo to view product details.

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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

6 Month Commodity Best
QUALITY: 100%
DELIVERY: 100%

BAE SYSTEMS

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

Gold Medal for Quality Performance from BAE Systems
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EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA•
Phone: 301-662-5019

Exceptional Monthly Supplier Rating from Argon ST (Boeing)

Note: Click image to view pdf document.
CUSTOMER AWARDS

Exceptional Supplier Performance from General Atomics

WEST COAST FACILITY:
4921 Robert J. Mathews Pkwy, Suite 1
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EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 •USA•
Phone: 301-662-5019
CUSTOMER AWARDS

Green Supplier Quality Rating from Northrop Grumman

October 21, 2020


ATTN: Adam Fitzwater - supplier contact

PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD
FREDERICK, MD 21704

Dear Supplier:

Your Northrop Grumman Supplier Quality Rating is currently: GREEN

This is a quarterly SQR rating letter. SQR rating letters are sent quarterly only.

The Northrop Grumman quality management system measures supplier performance based on several factors regarding product acceptance. A green rating is awarded to our best suppliers who maintain a 95% or greater quality acceptance rating and have properly addressed any open corrective action. If your supplier quality rating is not green, please ensure the necessary actions are taken to provide product or service that meets all Northrop Grumman contractual requirements.

If you have any questions in regards to this correspondence, please contact Northrop Grumman's Supplier Quality Engineer:

Dan Varner
4808146501
Daniel.Varner@nvgc.com

WEST COAST FACILITY:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 • USA
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Green Supplier Quality Rating from Northrop Grumman
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
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Systems - Fly Eye Radar
Threshold Detectors
USB Products

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
- Machine Shop
- Production and Quality Departments
- Continued Manufacturing Previous HARI, LLC (formerly 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
- Assembly & Test
- ESS Test Room
- Sub-Systems Assembly Manufacturing

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

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

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El Dorado Hills, CA 95762 • USA •
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EAST COAST FACILITY:
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Frederick, MD 21704 • USA •
Phone: 301-662-5019
### CUSTOMER

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<tr>
<th>NORTHROP GRUMMAN CORPORATION</th>
<th>PROGRAM</th>
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<tbody>
<tr>
<td>BALTIMORE, MD &amp; ROLLING MEADOWS, IL</td>
<td>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), AN/SLQ-32 (SEWIP BLOCK 3), B-1B</td>
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<td>GILBERT, AZ</td>
<td>LIMITERS AND DIRECTIONAL COUPLERS FOR BALLISTIC MISSILE FUNDED BY MISSILE DEFENSE AGENCY</td>
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<th>BAE SYSTEMS, NH</th>
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<tr>
<td>DEWS, F15 (AN/LQ-239)</td>
<td></td>
</tr>
<tr>
<td>EPAAWS, F15 (AN/LQ-250)</td>
<td></td>
</tr>
<tr>
<td>U2 PROGRAM (AN/LQ-221)</td>
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<tr>
<th>MITSUBISHI-MELCO, JAPAN</th>
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<tr>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS, F-2/F15 LIMITERS &amp; SOLID-STATE SWITCHES FOR DESTROYER SHIP, TP-1 (HELICOPTER) &amp; SUBMARINE, ASQ-2 (IEWS), ALQ-8 (ECM), SH-60, UP-3D, P-1</td>
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<td>CH 47 HELICOPTER, UH-60J HELICOPTER, ASQ-2 (IEWS), APR-4 (RWR), UH-X, HLR-108C</td>
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<th>NAVAL RESEARCH LAB, WASHINGTON, DC</th>
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<td>AMPLIFIED DETECTOR, RF MONITOR FOR ANACHOIC CHAMBER, 100 MHZ TO 18 GHZ TRANSCIEVER</td>
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### PROGRAMS

**CUSTOMER PROGRAM**

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<tr>
<td>EPAAWS, F15 (AN/LQ-250)</td>
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<td>U2 PROGRAM (AN/LQ-221)</td>
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<th>MITSUBISHI-MELCO, JAPAN</th>
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<tr>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS, F-2/F15 LIMITERS &amp; SOLID-STATE SWITCHES FOR DESTROYER SHIP, TP-1 (HELICOPTER) &amp; SUBMARINE, ASQ-2 (IEWS), ALQ-8 (ECM), SH-60, UP-3D, P-1</td>
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<td>CH 47 HELICOPTER, UH-60J HELICOPTER, ASQ-2 (IEWS), APR-4 (RWR), UH-X, HLR-108C</td>
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<th>NAVAL RESEARCH LAB, WASHINGTON, DC</th>
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<td>AMPLIFIED DETECTOR, RF MONITOR FOR ANACHOIC CHAMBER, 100 MHZ TO 18 GHZ TRANSCIEVER</td>
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<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs) &amp; MALD-N</td>
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### WEST COAST FACILITY:

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Phone: 916-542-1401

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Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

PROGRAMS

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<td>LOCKHEED MARTIN CO, AL</td>
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<td>RAYTHEON, CA, MD, TX</td>
<td>PEGASUS, CUSTOM IMA, ALQ-184, JAGUAR, SLDVA for AN/ALR-67(V3), HADES (HIGH POWER ADAPTIVE DIRECTED ENERGY SYSTEM)</td>
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<td>BHARAT ELECTRONICS, INDIA</td>
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### CUSTOMER

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<td>PASTERNACK ENTERPRISES, CA</td>
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<td>TOSHIBA, JAPAN</td>
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<td>NSWC, CRANE, IN</td>
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<td>BOEING, MO</td>
<td>SWITCHES AND THRESHOLD DETECTORS FOR HARPOON PROJECT</td>
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Orders Booked Statistics by Country 2014 through 2017

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2014 TOTAL: 100.00%

2015 TOTAL: 100.00%

2016 TOTAL: 100.00%

2017 TOTAL: 100.00%

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</tbody>
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**2018 TOTAL:** 100.00%  **2019 TOTAL:** 100.00%  **2020 TOTAL:** 100.00%

---

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El Dorado Hills, CA 95762 •USA•
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**EAST COAST FACILITY:**
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http://www.pmi-rf.com/about
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
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Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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2.0 to 18.0 GHz
200 W CW TWT Amplifiers

Keysight 50 GHz PNA

SSPA 10 MHz to 2.0 GHz, 100 W CW

20 W Fiber Laser
Amplifiers - Solid State
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Cycling Chamber
Hot/Cold Plate
UV Curing Light Printer
CO2 Laser
Hermetic Laser Welder
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Mazak Nexus 430A-II 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) & 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
  - (1) Siglent SDG1062X and Siglent SDG1032X Waveform Generators

- **Oscilloscopes:**
  - (1) Tektronix TDS210
  - (1) Tektronix TDS2024C
  - (1) Agilent DS06034A
  - (1) Keysight DS08204B
  - (1) Keysight DS0S204A
  - (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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**EAST COAST FACILITY:**
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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 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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Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Converters
Frequency Sources
Frequency Discriminators & IFM
Frequency Synthesizers
Gain & Loss Equalizers
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WEST COAST FACILITY:
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http://www.pmi-rf.com/about

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Frederick, MD 21704 •USA•
Phone: 301-662-5019
PMI West Coast Operations

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PMI West Coast Operations
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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) Infiniium 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) Bransonics 821D Ultrasonic Cleaner
- (2) UNITEK Gap Welders
- (1) Anatech Plasma Cleaner/Etcher
- (3) Westbond 7400A Wedge Bonder
- (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
- 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
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
International Traffic in Arms Regulations
ITAR

Note: Click image to view pdf document.
**PMI ISO9001 REGISTRATION**

International Quality Registrars (IQR) Corporation hereby certifies that

**Planar Monolithics Industries, Inc.**

**ISO 9001:2015**

Quality Management System - Requirements

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

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

FORM IQR-2506 Rev. A

**Note:** Click image to view pdf document.

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PMI EAST COAST ORGANIZATION CHART

Corporate
Administration
Accounting / Finance / CPA
Sales & Marketing
Quality Assurance Manager
Design Engineering (Electrical & Mechanical)
Manufacturing Assembler
Manufacturing Technician
Machine Shop
Production Planning & Inventory Control
Quality Control Inspector
Engineering Consultant
TOTAL

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