PLANAR MONOLITHICS INDUSTRIES, INC.

RF / MICROWAVE COMPONENTS & MULTIFUNCTION MODULES / SUBSYSTEMS

TECHNICAL CAPABILITIES & FACILITIES PRESENTATION

March 9, 2021

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

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

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

Planar Monolithics Industries, Inc. (PMI), was founded by Dr. Ashok (Ash) Gorwara in 1989. For over three decades, PMI has been a leading supplier of custom, high-reliability MIC/MMIC components and subsystems for applications in space, military, communications, commercial and consumer electronics systems.


Today, PMI with Quantic’s leadership continues to carry on the legacy of its founder, Dr Ash 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.

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 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.

(For Virtual Video on PMI click: https://www.pmi-rf.com/multimedia-video)
Quantic brings together companies that will define and deliver the future of mission-critical electronics.
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

Key To Success in Business and Personal Career

- Daily Take: Vitamin "A" - Attention, Action, Attitude. Vitamin "B" - Bevo, Bold, Bulletproof, 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 Operations 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 Image for Others To Follow.
- 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. Dot the "i"s & Cross The "t"s.
- Mediocrity Has No Place In Business & Life.
- Be Creative & Imaginative. Always Have A Rote Model Or Here 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, Sweet & Excuses.
- 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.

President & CEO:
Ashok Gowardhan
2nd October 2001

Note: Click image to view pdf document.

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EAST COAST FACILITY:
7311-F Grove Road
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Phone: 301-662-5019
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
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Switch Filter Banks
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Systems - Fly Eye Radar
Threshold Detectors
USB Products

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

PMI Evolution and Purpose

DC to 62 GHz
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:

\[
V_{\text{input}} = A \cos(\omega_0 t + \phi_t)
\]
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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AMPLITUDE ONLY
- AMPLITUDE
- FREQUENCY
- PHASE

FREQUENCY ONLY

- FREQUENCY

AMPLITUDE

FREQUENCY

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

TUNER / SUPERHETERODYNE FRONT-END

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

TYPICAL TRANSCEIVER / TRANSPONDER BLOCK DIAGRAM

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

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

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PMI specializes in replacing obsolete parts on old systems. We offer Form-Fit-Functional replacement Parts for any system. If a Source Control Drawing (SCD) is available, we can offer a complete solution to meet all 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 – 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

0.5 to 50.0 GHz, LNA with 30 dB Gain

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

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

0.1 to 0.3 GHz Low Noise Amplifier

10 MHz to 6.0 GHz Portable Amplifier with 30 dB Gain

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

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

0.5 to 50.0 GHz, LNA with 30 dB Gain

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

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PMI PRODUCTS – Solid State Amplifiers

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
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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
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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
0.1 to 20.1 GHz Limiting Amplifier
30 MHz to 40.0 GHz Low Noise Amplifier
1.0 to 20.0 GHz Portable Amplifier

Note: Click photo to view product details.

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PMI PRODUCTS – Attenuators
(Variable, Programmable, Fixed)

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
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0.5 to 18.0 GHz,
20 dB Switched Bit Attenuator

1.0 to 18.0 GHz,
60 dB Digital Attenuator

2.0 to 18.0 GHz
10-Bit Programmable Attenuator

0.1 to 0.3 GHz
Voltage Controlled Attenuator

13.0 to 14.0 GHz
8-Bit Programmable Attenuator

8.0 to 18.0 GHz,
8-BIT Digital Attenuator

Note: Click photo to view product details.

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PMI PRODUCTS – Attenuators
(Variable, Programmable, Fixed)

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2.0 to 18.0 GHz Bi-Phase Modulator

18.0 to 40.0 GHz Bi-Phase Modulator

0.5 to 1.0 GHz Bi-Phase Modulator/Shifter

2.0 to 6.0 GHz Bi-Phase Modulator/Shifter

26.5 to 40.0 GHz Bi-Phase Modulator

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

7.0 to 18.0 GHz 90° Hybrid Coupler

3 dB, 90° Quadrature Couplers

0.02 to 6.0 GHz 90° Hybrid Coupler

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PMI PRODUCTS – Detectors
(RF / Microwave)

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)

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PMI PRODUCTS – DLVAs, ERLVAs, SDLVAs & Log Amps

0.75 to 1.25 GHz SDLVA

8.0 to 10.0 GHz Detector Log Video Amplifier

1.0 to 20.0 GHz Miniature Successive Detection Log Video Amplifier

DC to 40.0 GHz, SDLVA

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PMI PRODUCTS - DLVAs, ERLVAs, SDLVAs & Log Amps

50.0 MHz to 18.5 GHz DLVA

0.5 to 18.0 GHz DC-Coupled DLVA

18.0 to 40.0 GHz, 65 dB SDLVA

50.0 MHz to 50.0 MHz SDLVA

18.0 to 90.0 MHz SDLVA

315.0 to 362.0 MHz SDLVA

18.0 to 40.0 GHz DLVA

0.1 to 3.0 GHz SDLVA

2.0 to 18.0 GHz SDLVA

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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
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PMI PRODUCTS – DLVAs, ERLVAs, SDLVAs & Log Amps

2.0 to 8.0 GHz
CW Immune EW Detector Module

2.0 to 6.0 GHz
EW Detector Module

2.0 to 18.0 GHz, 65 dB ERDLVA

8.0 to 18.0 GHz, 40 dB SDLVA

8.0 to 18.0 GHz
CW Immune EW Detector Module

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0.1 to 4.0 GHz SDLVA

2.0 to 18.0 GHz SDLVA

6.0 to 18.0 GHz SDLVA

0.5 to 18.0 GHz Miniature SDLVA

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

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
Bandpass Filter, centered at 160 MHz with a 3 dB Bandwidth of 20 MHz ± 5%
6.0 to 18.0 GHz, Filter/Detector
Miniature, 2 Channel Switch Filter Bank
Low Pass Filter with 2400 MHz Cutoff Frequency
11.0 GHz Band Pass Filter

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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
6.0 to 18.0 GHz, Synthesizer, Switch Filter Bank, Amplifier Module
DC to 26.0 GHz 5-Channel Switch Filter Bank
16.0 GHz Fo, 2.0 GHz Bandwidth, Cavity Filter

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**PMI PRODUCTS – Filters & Switched Filter Banks**

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC to 1.25 GHz</td>
<td>Microstrip Low Pass Filter</td>
</tr>
<tr>
<td>DC to 2.0 GHz</td>
<td>Microstrip Low Pass Filter</td>
</tr>
<tr>
<td>DC to 2.5 GHz</td>
<td>Microstrip Low Pass Filter</td>
</tr>
<tr>
<td>DC to 3.5 GHz</td>
<td>Microstrip Low Pass Filter</td>
</tr>
<tr>
<td>DC to 6.0 GHz</td>
<td>Microstrip Low Pass Filter</td>
</tr>
<tr>
<td>DC to 10.0 GHz</td>
<td>Microstrip Low Pass Filter</td>
</tr>
<tr>
<td>2.0 to 22 GHz</td>
<td>High Pass Filter</td>
</tr>
<tr>
<td>2.0 to 18.0 GHz</td>
<td>Suspended High Pass Filter</td>
</tr>
<tr>
<td>6.0 to 33.0 GHz</td>
<td>High Pass Filter</td>
</tr>
<tr>
<td>3.4 GHz Dual Band</td>
<td>Bandpass Filter Module</td>
</tr>
<tr>
<td>11.2 to 18.0 GHz Dual</td>
<td>Bandpass Filter Module</td>
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<tr>
<td>850 MHz Bandwidth</td>
<td>Amplified Filter Module</td>
</tr>
</tbody>
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PMI PRODUCTS – Filters & Switched Filter Banks

4.4 to 6.4 GHz Band Pass Filter
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

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
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1.0 to 20.0 GHz
6-Channel Switch Filter Bank

0.95 to 18.0 GHz,
8 Channel Switch Filter Bank

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

2-Channel Switch Filter Bank

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• 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.
PMI PRODUCTS – Frequency Converters

4.4 to 7.8 GHz Amplifier Mixer Module

7.8 to 11.2 GHz Amplifier Mixer Module

11.2 to 14.6 GHz Amplifier Mixer Module

14.6 to 18 GHz Amplifier Mixer Module

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2.0 to 18.0 GHz, Digitally Tuned Oscillator (DTO)
10.0 GHz, Integrated Phase Shifter Dielectric Resonator Oscillator (DRO) Module
8.8 to 9.46 GHz
Temperature Stabilized Output Medium
Power X-Band Gunn-Effect Oscillator
10 MHz Reference Source

840 MHz Phase-Locked Oscillator

7519.95 MHz PDRO

Digitally Tuned Oscillators (DTOs)
PMI PRODUCTS - Frequency Discriminators & IFM

30 MHz, Frequency Discriminator

2.0 to 18.0 GHz, Digital Frequency Discriminator

1.0 GHz, Frequency Discriminator

1.0 to 18.0 GHz, Frequency Discriminator

3.5 to 5.5 GHz
Frequency Discriminator

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PMI PRODUCTS - Frequency Discriminators & IFM

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PMI PRODUCTS – Frequency Synthesizers

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6.0 to 18.0 GHz, Synthesizer

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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)

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PMI Products - Integrated MIC/MMIC Assemblies (IMAs)

- 10 MHz to 18.0 GHz, Amplified Detector Module
- 1030 MHz ±0.01 MHz, Power Detector Module
- 7.7 to 8.2 GHz Laser Control Module
- 1.0 to 18.0 GHz, Triplexer
- 9410 MHz, Multi-Function Module
- 0.5 to 18.0 GHz Analog Level, Scan and Pulse Modulation Module

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PMI PRODUCTS - Integrated MIC/MMIC Assemblies (IMAs)

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

1.0 to 18.0 GHz
Channelized Receiver

Note: Click photo to view product details.

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http://www.pmi-rf.com/about
PMI PRODUCTS – I/Q Vector Modulators

2.0 to 18.0 GHz, I/Q Vector Modulator

8.5 to 10.0 GHz, Phase Shifter - I/Q High Speed Modulator

6.0 to 18.0 GHz, I/Q Vector Modulator

0.5 to 2.0 GHz, I/Q Vector Modulator

85 MHz to 18.0 GHz, I/Q Vector Modulator

Note: Click photo to view product details.

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PMI PRODUCTS – Limiters
(RF & Microwave)

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
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IQ Vector Modulators
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Log Amps
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Pulse Modulators - SP1T
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
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Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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26.5 to 40.0 GHz
20 W Peak Limiter

18.0 to 40.0 GHz
1 W CW Limiter

10 MHz to 35.0 GHz
25 W CW Limiter

26.5 to 40.0 GHz
20 W Peak Limiter

32.0 to 36.0 GHz
20 W Peak Limiter

35.5 GHz ± 500 MHz
20 W Peak Limiter

26.5 to 40.0 GHz
20 W Peak Limiter

18.0 to 40.0 GHz
2 W Limiter

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PMI PRODUCTS – Limiters (RF & Microwave)

0.01 to 2.5 GHz, 100 W CW, 1 kW Peak, RF Limiter
0.4 to 2.0 GHz, Coaxial Limiter
18.0 to 40.0 GHz, Low Loss Diplexer
20 MHz to 20.0 GHz Limiter
50 MHz to 18.0 GHz High Power Limiter
2.0 to 18.0 GHz, +50 dBm Peak RF Limiter
0.1 to 20.0 GHz Limiter
0.5 to 8.0 GHz, Active Limiter
14.65 to 15.35 GHz Integrated Limiter and Attenuator

Note: Click photo to view product details.

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PMI PRODUCTS – Limiters (RF & Microwave)

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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
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Frequency Synthesizers
Gain & Loss Equalizers
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
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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)

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Switch Filter Banks
Switches - Solid-State Systems - Radar Sense & Avoid
Systems - Fly Eye Radar Threshold Detectors USB Products

PMI PRODUCTS – Miscellaneous

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Note: Click photo to view product details.
PMI PRODUCTS – Monopulse Comparators

3.0 to 3.7 GHz Monopulse Comparator

2.2 to 2.4 GHz Monopulse Comparator

2.0 to 4.0 GHz Monopulse Comparator

3.0 to 3.5 GHz Monopulse Comparator

5.0 to 6.0 GHz Monopulse Comparator

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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
- 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 - Phase Shifters & BI-Phase Modulators

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Note: Click photo to view product details.

6.0 to 8.0 GHz, 8 Bit, 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

8.0 to 10.0 GHz, 360° Digital Phase Shifter

6.0 to 18.0 GHz, 360° Digital Phase Shifter

2.0 to 8.0 GHz, 360° Digital Phase Shifter

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
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Log Amps
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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 - Phase Shifters & BI-Phase Modulators

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PMI PRODUCTS - Phase Shifters & BI-Phase Modulators

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8.0 to 12.0 GHz
8-Bit Digitally Controlled Phase Shifter

85 MHz to 4.0 GHz
8-Bit Digitally Controlled Analog Phase Shifter

32.0 to 37.0 GHz
8-Bit Digitally Controlled Phase Shifter

9.0 to 11.0 GHz
8-Bit Digitally Controlled Phase Shifter

3.0 GHz
6-Bit Phase Shifter

2.0 to 18.0 GHz
8-Bit Phase Shifter

Note: Click photo to view product details.
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
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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 Converter

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

1.0 to 22.0 GHz

4-Way Power Divider

2.0 to 18.0 GHz

4-Way Power Divider

0.5 to 18.0 GHz

16-Way Power Divider

0.1 to 18.0 GHz

2-Way Power Divider

328 to 335.5 MHz

7-Way Power Divider

2.0 to 26.0 GHz

4-Way Power Divider

0.5 to 18.0 GHz

16-Way Power Divider

0.1 to 18.0 GHz

2-Way Power Divider

Note: Click photo to view product details.

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

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

Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180, Directional)
Detectors - RF / Microwave
DLVAs, ERDLVAs & SDLVAs
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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

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

2.0 to 18.0 GHz 16-Way Power Divider

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

0.5 to 2.0 GHz High Isolation 8-Way Power Divider

Note: Click photo to view product details.

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

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
2.0 to 6.0 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.

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

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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

12.0 to 18.0 GHz, High Speed
Absorptive Transfer Switch

DC to 18.0 GHz
Absorptive Transfer Switch

DC to 40.0 GHz
SPST Absorptive Switch

Note: Click photo to view product details.

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PMI PRODUCTS - Rack and Chassis
Mount Products

Ethernet Microcontroller Test Box

Multiagent Radio Frequency Path Simulator

10 MHz to 6.0 GHz, High Gain Amplifier
Integrated Microwave Assembly

RF Signal Distribution Systems

0.1 to 18.0 GHz High Gain Amplifier
Integrated Microwave Assembly

10-Way Switch Filter Bank

0.5 to 18.0 GHz
16-Way Power Divider

Note: Click photo to view product details.

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PMI PRODUCTS - Receiver Front Ends & Transceivers

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68
PMI PRODUCTS - Single Sideband Modulators

- 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.

PMI PRODUCTS - Single Sideband Modular
- 50 MHz to 1.0 GHz
- Single Sideband Modular

PMI PRODUCTS - Single Sideband Modular
- 500 MHz to 2.5 GHz
- Single Sideband Modular
PMI PRODUCTS - SMT & QFN Products

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PMI PRODUCTS – Switch Matrices

20 MHz to 3.0 GHz, SP8T Non-Reflective Switch Module

RF Signal Distribution Systems

Note: Click photo to view product details.

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Threshold Detectors
USB Products

PMI PRODUCTS - Solid State Switches

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

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

50 MHz to 40.0 GHz, SP4T

2.0 to 20.0 GHz SP6T Absorptive Switch

20 MHz to 18.0 GHz, SP8T

18.0 to 40.0 GHz SPST

20 Watt Surface Mount SPDT

DC to 40.0 GHz, Ultra High Speed SPST

Note: Click photo to view product details.
PMI PRODUCTS – Solid State Switches

0.1 to 18.0 GHz
Absorptive Transfer Switch

0.1 to 20.0 GHz
SP4T Absorptive Switch

0.1 to 52.0 GHz
SP16T Absorptive Switch

0.5 to 20.0 GHz
SP9T Reflective Switch

2.0 to 18.0 GHz
SP2T Absorptive Switch

2.0 to 18.0 GHz
SP3T Absorptive Switch

8.0 to 40.0 GHz
SPST Absorptive Switch

9.5 to 10.0 GHz
SP3T Reflective Switch

0.5 to 40.0 GHz
SP6T Reflective Switch

2.0 to 18.0 GHz
SP3T Absorptive Switch

24.0 to 40.0 GHz, SPST

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Note: Click photo to view product details.

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
- 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)
- 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.

7.0 to 18.0 GHz
0.7 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

1.0 to 18.0 GHz
1 W CW, SP3T Absorptive Switch

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

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

6.0 to 18.0 GHz, 1 W Average
SP4T Absorptive Switch

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

Note: Click photo to view product details.
PMI PRODUCTS – Solid State Switches

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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Frequency Sources
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Frequency Synthesizers
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Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters - RF / Microwave
Log Amps
Miscellaneous Products
Monopulse Comparators
Multifunction Integrated Assemblies (IMAs)
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Power Dividers/Combiners (Passive & Active)
Pulse Modulators - SP1T
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Single Side Band Modulators
SMT & QFN Products
Switch Matrices
Switch Filter Banks
Switches - Solid-State Systems
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
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
8.0 to 12.0 GHz, 120 W CW (1.5 kW Peak), SP2T Reflective Switch
0.5 to 18.0 GHz, 100 W Reflective SP2T

Note: Click photo to view product details.

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

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Phone: 301-662-5019

75
PMI PRODUCTS – Solid state Switches

DC to 40.0 GHz
SPST Absorptive Switch

0.1 to 50.0 GHz
SP2T Absorptive Switch

0.1 to 50.0 GHz
SP4T Absorptive Switch

0.5 to 40.0 GHz
SP5T Absorptive Switch

0.5 to 18.0 GHz
SP12T Absorptive Switch

0.5 to 18.0 GHz
SP20T Absorptive Switch

0.5 to 40.0 GHz
SP8T Absorptive Switch

7.0 to 18.0 GHz
SP20T Absorptive Switch

Note: Click photo to view product details.

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PMI PRODUCTS – Solid State Switches

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Note: Click photo to view product details.

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Phone: 301-662-5019
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
Couplers (Quadrature, 180,Directional)
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DLVAs, ERDLVAs & SDLVAs
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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 – 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

2.0 to 18.0 GHz
SP8T Absorptive Switch

0.5 to 18.0 GHz
SP2T Absorptive Switch

1.0 to 18.0 GHz
SP4T Absorptive Switch

0.5 to 40.0 GHz
SP3T Absorptive Switch

0.5 to 8.0 GHz
SP2T Reflective, 50 W Switch

Note: Click photo to view product details.

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PMI PRODUCTS – Solid State Switches

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Note: Click photo to view product details.

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PMI PRODUCTS – Solid State Switches

SP3T Pin Diode Switch

2.0 to 18.0 GHz
SP8T Absorptive Switch

SP6T Miniature Design

0.25 to 18.0 GHz
SP16T Absorptive Switch

26.0 to 40.0 GHz
SP16T Absorptive Switch

Note: Click photo to view product details.

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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.
PMI PRODUCTS – Fly Eye Radar Systems

PASSIVE RADAR FOR SMALL UAS

Note: Click photo to view product details.

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PMI PRODUCTS – Fly Eye Radar Systems

MINE DETECTION, GROUND PENETRATING RADAR ON A TETHERED DRONE

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

Sense & Avoid Radar for UAS

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

PROJECTILE

PASSIVE SMALL PROJECTILE TRACKING RADAR

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http://www.pmi-rf.com/about
PMI PRODUCTS – Fly Eye Radar Systems

RF/Microwave Imaging Radar

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

- **2.0 to 18.0 GHz, Threshold Detector**
- **4.0 to 4.5 GHz, Ultra-High Speed, High Sensitivity Threshold Detector**
- **0.5 to 18.0 GHz, Threshold Detector**
- **70 to 330 MHz Threshold Detector**
- **0.1 to 18.0 GHz, Threshold Detector**
- **2.0 to 18.0 GHz, High Speed, LVPECL Logic Output Threshold Detector**
- **3.8 to 4.6 GHz, High Speed Threshold Detector**

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

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PMI PRODUCTS - Threshold Detectors

50 MHz to 4.0 GHz Threshold Detector
0.2 to 18.0 GHz Threshold Detector
8.0 to 18.0 GHz Threshold Detector
0.5 to 18.0 GHz Threshold Detector
0.4 to 18.0 GHz Threshold Detector
2.0 to 18.0 GHz Threshold Detector
2 MHz to 18.0 GHz Threshold Detector
1.0 to 12.0 GHz Threshold Detector
8.0 to 12.0 GHz Threshold Detector
16.0 to 40.0 GHz, High Speed Threshold Detector

Note: Click photo to view product details.

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PMI PRODUCTS – USB Products

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

100 MHz to 18.0 GHz, 30 dB
USB Attenuator

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

500 MHz to 40.0 GHz
USB Powered SP2T Switch

Note: Click photo to view product details.
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%

<table>
<thead>
<tr>
<th>Rejects</th>
<th>% Accepted</th>
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</thead>
<tbody>
<tr>
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<td>0</td>
<td>100</td>
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<tr>
<td>0</td>
<td>100</td>
</tr>
</tbody>
</table>

Your Rating

Gold Medal

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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)

CUSTOMER AWARDS

Note: Click image to view pdf document.

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http://www.pmi-rf.com/about
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 actions. 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@ngc.com

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4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 •USA•
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Switch Matrices
Switch Filter Banks
Switches - Solid-State Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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 (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
- 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

WEST COAST FACILITY:
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El Dorado Hills, CA 95762 •USA•
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EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 •USA•
Phone: 301-662-5019
<table>
<thead>
<tr>
<th>CUSTOMER</th>
<th>PROGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORTHRUP GRUMMAN CORPORATION</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>NORTHRUP GRUMMAN CORPORATION</td>
<td>LIMITERS AND DIRECTIONAL COUPLERS FOR BALLISTIC MISSLE FUNDED BY MISSILE DEFENSE AGENCY</td>
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<td>BAE SYSTEMS, NH</td>
<td>DEWS, F15 (A/NALQ-239) EPAWSS, F15 (AN/ALQ-250) U2 PROGRAM (AN/ALQ-221) KNIGHT PROGRAM DARK HORSE ALE-55</td>
</tr>
<tr>
<td>MITSUBISHI-MELCO, JAPAN</td>
<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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<tr>
<td>TOKYO-KEIKI, JAPAN</td>
<td>CH 47 HELICOPTER, UH-60J HELICOPTER, ASQ-2 (IEWS), APR-4 (RWR), UH-X, HLR-108C</td>
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<tr>
<td>NAVAL RESEARCH LAB, WASHINGTON, DC</td>
<td>AMPLIFIED DETECTOR, RF MONITOR FOR ANACHOIC CHAMBER, 100 MHZ TO 18 GHZ TRANSCIEVER</td>
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<td>RAYTHEON MISSILE SYSTEMS, AZ</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs) &amp; MALD-N</td>
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<tr>
<td>L-3 COMMUNICATIONS, TX</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs) 16 CHANNEL CUSTOM SWITCH FILTER BANK</td>
</tr>
</tbody>
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**DCAS**
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**PMI - A Quantec Company**
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- 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>
<td>MK92 FIRE CONTROL SYSTEM (FORM, FIT &amp; FUNCTION SPARES)</td>
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<td>GUNN DIODE OSCILLATORS (F-16)</td>
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<td>SOLID STATE SWITCHES WITH LOW VIDEO TRANSIENTS (NAVAL EW SYSTEMS), LNAs, LIMITERS</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>FILTERS, ATTENUATORS, SWITCHES, AMPLIFIERS, PHASE SHIFIERS, AND LOG AMPS</td>
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<td>AIRBUS DEFENCE &amp; SPACE, GERMANY</td>
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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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<td>NASA, MD</td>
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<td>SPACE VECTOR, CA</td>
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<td>PASTERNACK ENTERPRISES, CA</td>
<td>OVER 150 DIFFERENT IN STOCK MODELS</td>
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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
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
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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

CUSTOMER | PROGRAM
----------|---------
INTEL CORPORATION, CA | 56 NETWORKS
DTS (CHILEAN AIRFORCE), CHILE | AMPLIFIERS
BRAZILIAN NAVY/THALES | RF COMPONENTS FOR DF SYSTEM (MAGE MK3)
ULTRA ELECTRONICS – AVALON SYSTEMS, AUSTRALIA | AMPLIFIERS
ULTRA ELECTRONICS – EWST, UK | SDLVs, COARSE MICROWAVE DISCRIMINATOR
HENSOLDT SENSORS GmbH, GERMANY | SDLVs
ELDES S.R.L., ITALY | ATTENUATORS, SDLVs
DANISH AIRFORCE, DENMARK | INTEGRATED MICROWAVE ASSEMBLY, F-18
NETHERLANDS MINISTRY OF DEFENSE, NETHERLANDS | SWITCHES
FOCUSMICROWAVES, CANADA | SWITCHES
MC COUNTERMEASURES, CANADA | SDLVs, FREQUENCY DISCRIMINATORS
REIHNMETALL, ITALY | OSCILLATORS
BANC3, NJ | CHANNELIZED RECEIVER
ANAREN, NY | NAVAL IMA
BAE, NY | ALR-56
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<td>HUGHES (RAYTHEON)</td>
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<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)</td>
<td>40 GHz AMPLIFIER AND BIAS TEE</td>
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<td>BLOSSOM POINT RESEARCH FACILITY</td>
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<td>TOSHIBA, JAPAN</td>
<td>ELINT, E2C</td>
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<td>TRANSFORMATIONAL SECURITY, MD</td>
<td>CUSTOM THRESHOLD DETECTORS</td>
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<td>ROYAL AUSTRALIAN NAVY</td>
<td>LOG AMP - CONDOR CS-5600 ESM (COLLINS CLASS SUBMARINE)</td>
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<td>RHEINMETALL DEFENSE, ITALY</td>
<td>PLDROs FOR X-TAR-40, X-TAR-3D, AND KU-20</td>
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<td>NSWC, CRANE, IN</td>
<td>AEGIS COMBAT SYSTEM</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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<td>TURKEY</td>
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</tbody>
</table>

2018 TOTAL: 100.00% 2019 TOTAL: 100.00% 2020 TOTAL: 100.00%

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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
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Systems - Fly Eye Radar
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USB Products
PMI EAST COAST OPERATIONS

WEST COAST FACILITY:
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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
Attenuators - Variable/Programmable
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Cycling Chamber
Hot/Cold Plate
UV Curing Light Printer
CO₂ Laser
Hermetic Laser Welder
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
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Metallurgic Microscope
Plasma Cleaners
Thermal Shock
Amplifiers - Solid State
Attenuators - Variable/Programmable
Bi-Phase Modulators
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PMI EAST COAST OPERATIONS

HAAS DT1 CNC Milling Machine
PMI EAST COAST OPERATIONS

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Mazak Nexus 430A-II CNC Milling Machine
Amplifiers - Solid State
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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 (10MHz to 50GHz)
  ▪ (1) Keysight 8362B Network Analyzer (10MHz to 20GHz)

➢ Noise Figure Meter:
  ▪ (2) Agilent N8975A (10 MHz to 26.5 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) Agilent E8257A
  ▪ (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 DS080204B
  ▪ (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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➢ 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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Switch Filter Banks
Switches - Solid-State
Systems - Radar Sense & Avoid
Systems - Fly Eye Radar
Threshold Detectors
USB Products

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HAAS DT1 CNC Milling Machine

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PMI West Coast Operations
Manufacturing and Standards

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

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

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

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

- **Oscilloscopes:**
  - (1) 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) 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:**
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- Trained and Experienced ITAR/Export Administrator
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- AES (Automated Export System) certified export staff
- Long Term Relationships with both DDTC and SNAP-R Personnel
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- 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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Corporation
301-156-2000

International Quality Registrars (IQR) Corporation
hereby certifies that

Planar Monolithics Industries, Inc.

ISO 9001:2015
Quality Management System - Requirements

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

Registration No.: 18-1200001 IQ
Last Cert. Revision Date: 09/17/18
Client ID: PMI09
Cert. Expiration Date: 09/17/21
Initial Cert. Issue Date: 02/24/99
Sheet No.: 1 of 1

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