EAST AND WEST COAST OFFICES

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

sales@pmi-rf.com
www.pmi-rf.com/aboutus.htm

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA

Amplifiers – Solid State
Attenuators – Variable/Programmable
Couplers (Quadrature, 180° & Directional)
Detectors – RF/Microwave
DVLAs, ERDLVAs & SDLVAs
DTOs, VCOs, PLO, DROs, & Frequency Synthesizers
Filters & Switched Filter Banks
Form, Fit, Functional Products & Services
Frequency Discriminators & IFMs
Integrated MIC/MMIC Assemblies (IMAs)
IQ Vector Modulators
Limiters – RF/Microwave
Log Amplifiers
Millimeter Wave Components (Up to 50 GHz)
Miscellaneous Products
Multifunction Integrated Assemblies (MIAs)
Phase Shifters & Bi-Phase Modulators
Power Dividers/Combiners (Passive & Active)
Pulse Modulators (SPST)
Rack & Chassis Mount Products
Receiver Front Ends & Transceivers
SDLVAs, ERDLVAs & DVLVAs
Single Side Band Modulators
SMF & QFN Products
Switch Matrices
Switched Filter Banks
Switches – Solid State
Systems - Radar Sense & Avoid
Systems – Fly Eye Radars
Threshold Detectors
USB Products
Planar Monolithics Industries, Inc. (PMI), an “S” Corporation, was founded by Dr. Ash (Ashok) Gorwara on November 11th, 1989 to take advantage of the growing demand in monolithic based products using Hybrid MIC/MMIC technology. PMI offers its unique DC to 50 GHz products for applications in space, military, telecommunications, communications and consumer electronics.

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

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

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

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

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

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

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

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

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

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

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

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

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

TYPICAL EW, ECM, ESM RECEIVER FRONT-END

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

- AMPLITUDE
- FREQUENCY
- PHASE & MODULATION

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

TUNER / SUPERHETEROODYNE FRONT-END

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

TYPICAL TRANSCEIVER / TRANSPONDER BLOCK DIAGRAM
Application of PMI DC to 50 GHz Components & Sub-Systems

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

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

FORM-FIT-FUNCTION AND OBSOLETE PARTS REPLACEMENT

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

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

SOLID STATE PIN DIODE
& FET SWITCHES

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SOLID STATE PIN DIODE SWITCH

20 MHz – 18 GHz SP8T

24 – 40 GHz SPST

50 MHz – 40 GHz SP4T

100 Watt SP2T

SP6T MINIATURE DESIGN

20 WATT SURFACE MOUNT SPDT

SP32T

GPO OR CONVENTIONAL CONNECTORS

DC – 40 GHz SPST

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PMI PRODUCTS

500 MHz – 18 GHz 20 dB SWITCHED BIT ATTENUATOR

1 – 18 GHz 60 dB DIGITAL ATTENUATOR

DC -2 GHz SWITCHED BIT ATTENUATOR

2 – 4 GHz VOLTAGE VARIABLE ATTENUATOR

8 – 18 GHz 8-BIT DIGITAL ATTENUATOR

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PMI PRODUCTS

1 – 2 GHz LNA w/ 35 dB Gain & 1.4 dB NF

9 – 10 GHz LNA w/ 37 dB Gain & 3 dB NF

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

2 – 18 GHz LNA w/ 30 dB Gain & 4 dB NF

2 – 18 GHz Limiting Amplifier with +21 dBm Limited Output

4-WAY POWER DIVIDER WITH QUAD PHASE OUTPUT OF J2=0°, J3=90°, J4=180° & J5=270°

6 – 19 GHz 2-WAY POWER DIVIDER

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PMI PRODUCTS

10 GHz INTEGRATED PHASE SHIFTER DIELECTRIC RESONANTOR OSCILLATOR (DRO) MODULE

21 GHz BEAM FORMING MONOPULSE CIRCUIT

2 – 18 GHz DIGITALLY TUNED OSCILLATOR (DTO)

2 – 18 GHz FREQUENCY DISCRIMINATOR

6 – 18 GHz SYNTHESIZER

30 MHz FREQUENCY DISCRIMINATOR

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PMI PRODUCTS

7 – 18 GHz, 75 dB SDLVA

500 MHz – 18 GHz, 50 dB DLVA

7 – 18 GHz, 75 dB DLVA

2 – 18 GHz, 65 dB CW IMMUNE ERDLVA

2 – 18 GHz, 65 dB ERDLVA

2 – 4 GHz, 45 dB DLVA

3 – 18 GHz, 70 dB SDLVA

700 – 1250 MHz, 70 dB SDLVA

100 – 700 MHz, 55 dB SDLVA

18 – 40 GHz 65 dB SDLVA

7 – 18 GHz SDLVA

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Frederick, MD 21704 • USA
PMI PRODUCTS

100 MHz – 18 GHz
Transceiver (Phase II)

500 MHz – 40 GHz USB
Powered LNA

500 MHz – 40 GHz Power LNA

100 MHz – 18 GHz
Transceiver (Phase III)

Vector Modulator

85 MHz – 2 GHz 8 bit
360° Phase Shifter

Double Sided
100 MHz – 18 GHz
Switch Filter Bank

500 MHz – 40 GHz
USB Powered SP2T Switch

4 – 18 GHz Up/Down Converter

2 – 6 GHz 8 bit 360°
Phase Shifter

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PLANAR MONOLITHICS INDUSTRIES, Inc.

FACILITIES INFORMATION

7311-F GROVE ROAD, FREDERICK, MD:
- 5,000 sq. ft. Facility
- Components Manufacturing
- Sub-Assembly Manufacturing
- Hybrid Assembly
- Filter Manufacturing
- 1,000 sq. ft. Class 10,000 Clean Room
- Engineering Department
- Test Department
- Production Officer
- QA/QC Office
- Sales & Marketing
- Executive Offices
- Conference Room

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

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

7310 GROVE ROAD, FREDERICK, MD:
- 1,000 sq. ft. Facility
- Accounting Offices

5715 INDUSTRY LANE, FREDERICK, MD:
- 2,500 sq. ft. Facility
- High Power Equipment Test Laboratory
- Clean Room
- Conference Room
- 600 sq. ft. 10,000 Clean Room

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

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 •USA•
# PROGRAMS

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<th>PROGRAM</th>
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<td>CABIN FEVER</td>
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<td>CORVAIR</td>
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<td>EA-18G</td>
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<td>ICAP-III</td>
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<td>LR-100</td>
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<td>FALCON EDGE</td>
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<td>ALQ-188</td>
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<td>PDF</td>
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<td>BAE SYSTEMS, NH</td>
<td>DEWS, F15</td>
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<td>EPAWSS</td>
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<td></td>
<td>KNIGHT Program</td>
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<td>U2 Program</td>
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<tr>
<td>TRANFORMATIONAL SECURITY</td>
<td>CUSTOM THRESHOLD DETECTORS</td>
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<tr>
<td>MITSUBISHI-MELCO (JAPAN)</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS</td>
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<tr>
<td></td>
<td>(SDLVAs), F-2</td>
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<tr>
<td>NAVAL RESEARCH LAB, WASH, DC</td>
<td>AMPLIFIER DETECTOR PRE-AMPLIFIER</td>
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<td></td>
<td>RF MONITOR FOR ANACOIC CHAMBER</td>
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<td></td>
<td>100 MHz-18 GHz TRANCIEVER</td>
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<td>RAYTHEON MISSILE SYSTESEM, AZ</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER</td>
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<td>L-3 COMMUNICATIONS, TX</td>
<td>(SDLVAs)</td>
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<td>LOCKHEED MARTIN CO, FL</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER</td>
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<td></td>
<td>(SDLVAs)</td>
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<tr>
<td>MIKES, TURKEY</td>
<td>SPEWS-II (F16) Turkey</td>
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<tr>
<td>ARGONST, VA</td>
<td>RF DISTRIBUTION UNIT</td>
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<tr>
<td>IDF (ISRAELI AIR FORCE)</td>
<td>GUNN DIODE OSCILLATORS</td>
</tr>
<tr>
<td>WARNER ROBINS AFB, GA</td>
<td>IF LOG AMPLIFIERS (FORM, FIT &amp; FUNCTION SPARES), B-1B</td>
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<tr>
<td>L-3 COMMUNICATIONS, UT</td>
<td>CUSTOM LIMITERS</td>
</tr>
<tr>
<td>MECTRON, BRAZIL</td>
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</tr>
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<td></td>
<td>(SDLVAs)</td>
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<td>MARS-1, BRAZILIAN AF</td>
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Network Analyzers:
- (3) Agilent N5230A PNA (10 MHz to 40 GHz)
- (2) Agilent N5230A PNA (10 MHz to 20 GHz)
- (1) Agilent N4691 E-CAL (10 MHz to 20 GHz)
- (1) Agilent N4692 E-CAL (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-420 PNA Network Analyzer (10 MHz to 40 GHz)
- (1) Keysight E8364B PNA Network Analyzer (10 MHz to 40 GHz)
- (1) Keysight N5234A PNA-L Network Analyzer (10 MHz to 50 GHz)
- (1) Keysight N4692A E-CAL (10 MHz to 50 GHz)

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

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

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

Pulse/Signal Generators:
- Agilent E8257D
- HP 8015A
- HP 8350B Sweep Oscillator
- HP Arbitrary Waveform Generator 33120A
- Agilent 33522A Arbitrary Waveform Generator
- (2) Keysight E8257A PSG Analog Signal Generator
- (2) Agilent E8257D PSG Analog Signal Generator

Oscilloscopes:
- (2) Tektronix TES 210 (60 MHz BW)
- (5) Agilent DSO6034A (300 MHz BW)
- (1) Keysight (2 GHz BW)

TWT Power Amplifiers:
- Varian TWTA 7 – 18 GHz, 20W
- CPI TWT Amplifier (2-8 & 8-18 GHz) 300 W CW

Manufacturing Equipment:
- TSE-11-A ESPEC Thermal Shock Chamber
- JEN410 IR Reflow Oven
- Thermo Electron Oven
- Anatech Plasma Cleaner
- Metallurgical Microscope MT1000
- (4) Westbond 74767E Convertible Wire Bonder
- (4) Westbond 74763OE-79 Wire Bonder
- (2) Westbond 7400A Welder
- (1) Westbond Bond Pull Center
- (2) Dage Bond Puller
- (1) Unitek Unibond-II Parallel Gap Welder
- (1) HAAS VF0 CNC Milling Machine
- (1) HAAS DT1 CNC Milling Machine
- (1) Hardinge Turret Lathe
- (1) Di-Acro Power Shear
- (1) Brady Label Machine BP-THT-600-11
- (4) Thermal Hot/Cold Plates
- Random Vibration Setup

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
PMI West Coast Operations

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USB Products
Network & Spectrum Analyzers:
- (5) HP 8757D Scalar Analyzers
- (1) HP 8720D Network Analyzer
- (1) HP 8563E Spectrum Analyzer
- (1) HP 8592L Spectrum Analyzer
- (2) Keysight N5234A PNA-L Network Analyzer
  (10 MHz to 50 GHz)

Noise Figure Meters:
- (1) HP 8970A Noise Meter
- (1) HP 8970B Noise Meter
- (1) Agilent 346C Noise Source

Power Meters:
- (1) HP EPM-442 Power Meter
- (2) HP E4412A Power Meter
- (1) HP 437B 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) HP 54503A Digital Scope & Probe
- (1) Agilent 54624A 100 MHz BW
- (1) Tektronix 2246 100 MHz BW
- (1) Tektronix 2465A 350 MHz BW

Manufacturing Equipment:
- (1) Quincy Model 40 Oven
- (1) Sym-Tek P162PSJ Oven
- (1) Cole/Parm 05015-50 Oven
- (1) Bransonic 821D Ultrasonic Cleaner
- (1) Pronto 474 Label Maker
- (4) UNITEK Gap Welders
- (1) March Plasmod Plasma Cleaner
- (4) Westbond 7400A Wedge Bonders
- (1) Westbond 70PT-M Bond Pull Center
- (4) Westbond 1200A Die Attach Stations
- (1) HAAS DT1 CNC Milling Machine
- (1) Westbond Bond Pull Center
- (1) Westbond 747677E Convertible Wire Bonder

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

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
Trained and Experienced ITAR/Export Administrator

Export Compliance Manual

AES (Automated Export System) certified export staff

Long Term Relationships with both DDTC and SNAP-R Personnel

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

WEST COAST FACILITY:
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El Dorado Hills, CA 95762 •USA•
sales@pmi-rf.com
www.pmi-rf.com/aboutus.htm

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 •USA•
PMI WEST COAST ORGANIZATION CHART

Dr. Ashok Gopala
President & CEO
Director Of
Engineering

Carol K. Mahoney
Management & HR Advisor

Paul James
Accounting Manager

Helen Steinhauer
Vice President Of Operations

John Merriner
Vice President & Director Of
RF/Microwave Leg Video Products

Dr. Al Grayzel
Management Advisor & Consulting Scientist

Marvin Szymkowicz
Dave Wooster
Legal Counsel

Dan Vollalpa
CPA & Business Advisor

Corporate 2
Advisors/Consultants 5
Engineering 1
Director of Manufacturing 1
Assembly Supervisor 1
Manufacturing Assemblers 3
Engineering Assemblers 1
Manufacturing Technicians 4
Machine Shop 2
Quality Assurance/Quality Control 1
Inventory Control 1
TOTAL 20

QA Inspector
Test Lab
Assembly Supervisor
Inventory Control
Shipping & Receiving
Machine Shop/Design & Drafting
Apprentice

Jason Peacher
QA/QC Manager

Edd Benson
Director Of Manufacturing

Sebastian Paladino
Director of Sales & Marketing, Principal Applications Engineer

Engineering Assembler
Engineering Technician

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