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, Planar Monolithics Industries Inc. (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 Planar Monolithics Industries Inc. (PMI), at its West Coast Facilities Operations located at 4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA 95762, USA.

HISTORY

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•
Planar Monolithics 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. Planar Monolithics organization 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

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

Planar Monolithics Industries, Inc. 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 Planar Monolithics 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 Planar Monolithics Industries.
As a manufacturer PMI utilizes our own designs for all components, integrated modules and subsystems:
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:

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

**Amplifiers**
- Attenuators - Variable
- DLVA & ERDLVA & SDLVA’s
- DTO’s & Frequency Synthesizers

**Filters**
- Form, Fit & Function Products
- IFM’s & Frequency Discriminators
- Integrated MIC/MMIC Modules
- I/Q Vector Modulators
- Limiters & Detectors
- Log Amplifiers
- Pulse & Bi-Phase Modulators
- Phase Shifters
- Rack & Chassis Mount Products
- Receiver Front Ends & Transceivers
- Single Sideband Modulators
- SMT & QFN Products
- Solid-State Switches
- Switch Matrices
- Switch Filter Banks
- Threshold Detectors
- USB Products

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

TYPICAL EW, ECM, ESM RECEIVER FRONT-END

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

- AMPLITUDE
- FREQUENCY
- PHASE & MODULATION

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Frederick, MD 21704 •USA•
Application of PMI DC to 50 GHz Components & Sub-Systems

TUNER / SUPERHETRODYNEN FRONT-END

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www.pmi-rf.com/aboutus.htm

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

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

WEST COAST FACILITY:
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El Dorado Hills, CA 95762 • USA

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www.pmi-rf.com/aboutus.htm

EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA
SOLID STATE PIN DIODE & FET SWITCHES

20 MHz – 18 GHz SP8T

24 – 40 GHz SPST

50 MHz – 40 GHz SP4T

ULTRA HIGH SPEEDS

SP6T MINIATURE DESIGN

20 WATT SURFACE MOUNT SPDT

CUSTOM DESIGNS

SP32T

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

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

9 – 10 GHz LNA w/37dB Gain & 3dB 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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EAST COAST FACILITY:
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PMI PRODUCTS

Amplifiers
Attenuators - Variable
DLVA & ERDLVA & SDLVA’s
DTO’s & Frequency Synthesizers
Filters
Form, Fit & Function Products
IFM’s & Frequency Discriminators
Integrated MIC/MMIC Modules
I/Q Vector Modulators
Limiters & Detectors
Log Amplifiers
Pulse & Bi-Phase Modulators
Phase Shifters
Rack & Chassis Mount Products
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Single Sideband Modulators
SMT & QFN Products
Solid-State Switches
Switch Matrices
Switch Filter Banks
Threshold Detectors
USB Products

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PMI PRODUCTS

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7 – 18 GHz, 75 dB SDLVA
700 – 1250 MHz, 70 dB SDLVA
500 MHz – 18 GHz, 50 dB DLVA
3 – 18 GHz, 70 dB SDLVA
7 – 18 GHz SDLVA
2 – 18 GHz, 65 dB CW IMMUNE ERDLVA
18 – 40 GHz 65 dB SDLVA
2 – 18 GHz, 65 dB ERDLVA
2 – 4 GHz, 45 dB DLVA
100 – 700 MHz, 55 dB SDLVA
8 – 18 GHz, 40 dB SDLVA

PMI PRODUCTS

7 – 18 GHz, 75 dB SDLVA
7 – 18 GHz SDLVA
2 – 18 GHz, 65 dB CW IMMUNE ERDLVA
700 – 1250 MHz, 70 dB SDLVA
500 MHz – 18 GHz, 50 dB DLVA
3 – 18 GHz, 70 dB SDLVA
2 – 18 GHz, 65 dB ERDLVA
2 – 4 GHz, 45 dB DLVA
18 – 40 GHz 65 dB SDLVA
8 – 18 GHz, 40 dB SDLVA
100 – 700 MHz, 55 dB SDLVA
PMI PRODUCTS

Amplifiers
Attenuators - Variable
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100 MHz – 18 GHz
Transceiver (Phase II)

EAST COAST FACILITY:
7311-F Grove Road
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500 MHz – 40 GHz USB Powered LNA

Vector Modulator

500 MHz – 40 GHz USB Powered SP2T Switch

4 – 18 GHz Up/Down Converter

85 MHz – 2 GHz 8 bit 360° Phase Shifter

2 – 6 GHz 8 bit 360° Phase Shifter

Double Sided
100 MHz – 18 GHz Switch Filter Bank

100 MHz – 18 GHz
Transceiver (Phase III)

500 MHz – 40 GHz
Transceiver (Phase III)
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

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

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

<table>
<thead>
<tr>
<th>CUSTOMER</th>
<th>PROGRAM</th>
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</thead>
<tbody>
<tr>
<td>NORTHPROGRAM CORPORATION</td>
<td>CORVAIR</td>
</tr>
<tr>
<td>BALTIMORE, MD &amp; ROLLING MEADOWS, IL</td>
<td>EA-18G</td>
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<tr>
<td></td>
<td>ICAP-III</td>
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<tr>
<td></td>
<td>LR-100</td>
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<td>FALCON EDGE</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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<tr>
<td></td>
<td>KNIGHT Program</td>
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<tr>
<td></td>
<td>U2 Program</td>
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<tr>
<td>TRANFORMATIONAL SECURITY</td>
<td>CUSTOM THRESHOLD DETECTORS</td>
</tr>
<tr>
<td>MITSUBISHI-MELCO (JAPAN)</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS (SDLVAs), F-2</td>
</tr>
<tr>
<td>NAVAL RESEARCH LAB, WASH, DC</td>
<td>AMPLIFIER DETECTOR PRE-AMPLIFIER</td>
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<tr>
<td></td>
<td>RF MONITOR FOR ANACHOIC CHAMBER</td>
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<tr>
<td></td>
<td>100 MHz-18 GHz TRANCIEVER</td>
</tr>
<tr>
<td>RAYTHEON MISSILE SYSTEMS, AZ</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs)</td>
</tr>
<tr>
<td>L-3 COMMUNICATIONS, TX</td>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs)</td>
</tr>
<tr>
<td>LOCKHEED MARTIN CO, FL</td>
<td>MK92 FIRE CONTROL SYSTEM (FORM, FIT &amp; FUNCTION SPARES)</td>
</tr>
<tr>
<td>MIKES, TURKEY</td>
<td>SPEWS-II (F16) Turkey</td>
</tr>
<tr>
<td>ARGONST, VA</td>
<td>RF DISTRIBUTION UNIT</td>
</tr>
<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>
<td>SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVAs)</td>
</tr>
<tr>
<td></td>
<td>MARS-1, BRAZILIAN AF</td>
</tr>
</tbody>
</table>

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

**EAST COAST FACILITY:**
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Frederick, MD 21704 •USA•

sales@pmi-rf.com
www.pmi-rf.com/aboutus.htm
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)
- (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 N5234A PNA-L Network Analyzer (10MHz to 50GHz)
- (1) Keysight N4692A E-CAL (10MHz to 50GHz)

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:
- (4) Gigatronics 85418
- (1) Agilent E4418B

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

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

TWT Power Amplifiers:
- Varian TWT 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
- Westbond 74767E Convertible Wire Bonder
- Westbond 747630E-79 Wire Bonder
- Westbond 7400A Welder
- Westbond Bond Pull Center
- Dage Bond Puller
- Unitek Unibond-II Parallel Gap Welder
- HAAS VF0 CNC Milling Machine
- HAAS DT1 CNC Milling Machine
- Hardinge Turret Lathe
- Di-Acro Power Shear
- Brady Label Machine BP-THT-600-11
- Thermal Hot/Cold Plates
- Random Vibration Setup

CAD Software:
- AutoCAD 2005
- AutoCAD 2013
- Altium Designer
- Microwave Office
- SolidWorks 2014
- Gibbs Cam

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

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EAST COAST FACILITY:
7311-F Grove Road
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PMI West Coast Operations

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www.pmi-rf.com/aboutus.htm

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

CAD 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
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EAST COAST FACILITY:
7311-F Grove Road
Frederick, MD 21704 • USA
Trained and Experienced ITAR/Export Administrator

Export Compliance Manual

AES (Automated Export System) certified export staff

Long Term Relationships with both DDTC and SNAP-R Personnel

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

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International Traffic in Arms Regulations
ITAR
PMI ISO9001 REGISTRATION

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EAST COAST FACILITY:
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PMI EAST COAST ORGANIZATION CHART

Dr. Ashok Gorwara  
President & CEO  
Director Of Engineering

Paul James  
Accounting Manager

Helen Steinhaus  
Director Of Operations

Dave Durbin  
Director of RF/Microwave Subsystems & Special Projects

Dr. Pavlo Molchanov  
Principal Scientist

Hai Say  
Manager Amplifier Products & Special Projects

Jason Peacher  
QA/QC Manager

Kevin Simms  
Production Manager

Sebastian Palacio  
Director of Sales & Marketing, Principal Applications Engineer

Engineering Assembler

Engineering Technician

Engineering Design & Drafting

Production Test  
Assembly  
Production Drafting & Design  
Production Planning & Inventory Control  
Machine Shop  
Shipping & Receiving

Corporate  
Administration  
Accounting/Finance  
Sales & Marketing  
Quality Assurance Manager  
Design Engineering  
Production Manager  
Manufacturing Assemblers  
Manufacturing Technicians  
Machine Shop  
Production Planning, & Inventory Control  
Quality Control Inspector

TOTAL  42

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