



Planar Monolithics Industries, Inc.

Integrated RF/Microwave Assemblies

PMI offers the highest quality multi-function modules and integrated microwave assemblies for commercial and military applications in frequency ranges up to 40 GHz. Built to your specifications, functions can include amplification, attenuation, filtering, switching, phase shifting, power detection, modulation, coupling, limiting and digital/analog control. PMI offers many other standard models with various options that are available at: <https://www.pmi-rf.com/categories/integrated-mic-mmhc-assemblies>

Amplifiers – Solid State

**Attenuators – Variable/
Programmable**

**Couplers (Quadrature,
180° & Directional)**

Detectors – RF/Microwave

**DLVAs, ERDLVAs
& SDLVAs**

**DTOs, VCOs, PLO, DROs,
& Frequency Synthesizers**

**Filters & Switched
Filter Banks**

**Form, Fit, Functional
Products & Services**

**Frequency Discriminators
& IFMs**

**Integrated MIC/MMIC
Assemblies (IMAs)**

IQ Vector Modulators

Limiters – RF/Microwave

Log Amplifiers

**Millimeter Wave
Components
(Up to 50 GHz)**

Miscellaneous Products

**Multifunction Integrated
Assemblies (MIAs)**

**Phase Shifters & Bi-Phase
Modulators**

**Power Dividers/Combiners
(Passive & Active)**

Pulse Modulators (SPST)

**Rack & Chassis Mount
Products**

**Receiver Front Ends
& Transceivers**

**SDLVAs, ERDLVAs
& DLVAs**

**Single Side Band
Modulators**

SMT & QFN Products

Switch Matrices

Switched Filter Banks

Switches – Solid State

**Systems - Radar Sense &
Avoid**

Systems – Fly Eye Radars

Threshold Detectors

USB Products

3U Open VPX Transceiver

PTRAN-100M18G-SFB-3UVPX-10HP-MAH

<http://www.pmi-rf.com/model-ptran-100m18g-sfb-3uvpx-10hp-mah>

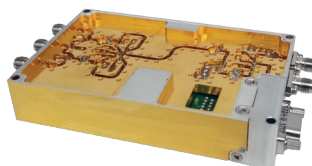
- 100 MHz to 18.0 GHz Transceiver
- Integrated Up and Down Converters
- IF up to 4 GHz
- Time Gated SDLVA for Pulse Blanking
- -80 to -10 dBm Input Dynamic Range
- Customizable Switched Filter Banks
- 0 to +10 dBm Transmit Power
- 100 ns Switching Speed
- Fits into a 3U open VPX form factor utilizing the high speed VITA 67 RF connector.
- CW Immunity



Phase and Amplitude Matched Integrated Modules in sets of four

PCAM-05G18G-INT-S5F

<https://www.pmi-rf.com/products-details/pcam-05g18g-int-s5f>

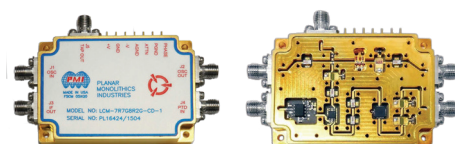


- Operating Frequency Range of 0.5 to 18.0 GHz.
- Built in sets of four, phase and amplitude matched to industry leading levels of $\pm 10^\circ$ and ± 1.5 dB over the frequency range.
- Incorporates limiters, LNAs, switches, and variable digital attenuators.
- These units allow for high and low gain paths, a calibration input, and an auxiliary channel.
- A low noise figure and high output P1dB of +15 dBm are achieved by utilizing system analysis software and in-house hybrid/MIC processes.
- SMA Female connectors and small housing configuration.

Amplified RF Downconverter Modules

LCM-7R7G8R2G-CD-1 & LCM-16G100MBW-CD-1

<https://www.pmi-rf.com/model-no-lcm-7r7g8r2g-cd-1>
<https://www.pmi-rf.com/model-no-lcm-16g100mbw-cd-1>



- Customized Frequency Ranges:
LCM-7R7G8R2G-CD-1: 7.7 to 8.2 GHz
LCM-16G100MBW-CD-1: 16.0 GHz \pm 50 MHz
- IF range of DC to 10 KHz
- Features a 20 dB voltage programmable attenuator and a 360° phase shifter.
- Designed for low spectral noise and high reverse isolation
- Slim line housing measuring only 2.5" x 1.75" x 0.4"

Quad Phase and Amplitude Matched Diplexer Gain Module

DGM-18G40G-292FF-DS

<https://www.pmi-rf.com/model-dgm-18g40g-292ff-ds>



- Operating Frequency Range: 18.0 to 40 GHz.
- Switched output and an integrated power divider feeding the four antenna inputs via a 20 dB coupler for ease of system integration.
- Band select function not only switches bands, but allows the amplified bands not in use to be turned off to reduce power consumption.
- Designed to have better than 60 dB harmonic suppression.



55th Annual AOC International
Symposium & Convention
Walter E. Washington Convention Center,
801 Mount Vernon Place NW, Washington DC
November 27-29, 2018
Booth # 913
<https://www.crows.org/mpage/Home>

West Coast Operation:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 USA
Tel: 916-542-1401, Fax: 916-265-2597

Microwave Workshops & Exhibition

MWE 2018
Nov.28-30, 2018, Pacifico Yokohama, JAPAN

Booth No. E-13 (Shoshin Corp)
https://apmc-mwe.org/mwe2018/en_index.html

East Coast Operation:
7311-F Grove Road
Frederick, MD 21704 USA
Tel: 301-662-5019, Fax: 301-662-1731

sales@pmi-rf.com • www.pmi-rf.com
ISO9001-2015 REGISTERED