Planar Monolithics Industries, Inc.

Integrated RF/Microwave Assemblies & Modules

PMI offers the highest quality multi-function modules and integrated microwave assemblies for industrial and military applications in frequency ranges up to 50 GHz. Built to your specifications with functions that 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-mmic-assemblies

- **Amplifiers**
- **Attenuators**
- **Bi-Phase Modulators**
- **Couplers**
- **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**
- **IQ Vector Modulators**
- **Limiters - RF / Microwave**
- **Miscellaneous Products**
- **Monopulse Comparators**
- **Multifunction Integrated Assemblies**
- **Phase Shifters**
- **Power Dividers**
- **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**
- **USB Style Product**

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**3U Open VPX Transceiver**

PTTRAN-100M18G-SFB-3UVGX-HP-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

**Amplified RF Downconverter Modules**

LCM-7R78GRG-CD-1 & LCM-16G100MBW-CD-1

- Customized Frequency Ranges
- LCM-7R78GRG-CD-1: 7.7 to 8.2 GHz
- LCM-16G100MBW-CD-1: 16.0 GHz ± 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”

**Phase and Amplitude Matched Integrated Modules in sets of four**

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 ±10º 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.

**Quad Phase and Amplitude Matched Diplexer Gain Module**

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.

**CW immune EW Detector Modules**

EWDM-2G8G-65-70MV & EWDM-8G18G-65-70MV

- Customized Frequency Ranges:
  - EWDM-2G8G-65-70MV: 2.2 to 8.0 GHz
  - EWDM-8G18G-65-70MV: 8.0 to 18 GHz
- Internal switch used to switch between the Bit IN and RF IN with input blanking on both ports.
- RF output port is provided with a gain of 33 dB minimum
- Video output is designed to drive a 150 ft. cable with input dynamic range of 65.6 dB & -71 dBm
- RF Output #1 to RF Output #2 isolation: >35 dB
- Slim line housing measuring only 3.0” x 1.5” x 0.375”
- Other Frequency Ranges and Output Power Levels Available.

**Active, Filtered, Frequency Doubler Modules**

PFDM-3R6R65-13-TRDC-SFF

- Frequency Range: Input: 3.6 - 6.65 GHz
- Output: 3.6 - 13.3 GHz
- Dual RF Output - TTL Switchable, Switching Speed: < 20 ns
- RF Output #1 to RF Output #2 Isolation: >35 dB
- Slim line housing measuring only 3.0” x 1.5” x 0.375”
- Other Frequency Ranges and Output Power Levels Available.

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