New Products Released by
PLANAR MONOLITHICS INDUSTRIES, INC (PMI)
on December 15, 2014

New Products

• 1.0 DD-20-218-5PF-1-N-M-OPT0518: 0.5 to 18.0GHz, High Speed, High Sensitivity, Diode Detector
• 2.0 PE2-12-2G4D2G-5R0-17-12-SFF: 2.0 to 4.2GHz, 12 dB Gain, Low Noise Amplifier
• 3.0 PE2-22-2G4D2G-3R0-19-12-SFF: 2.0 to 4.2GHz, 21.5dB Gain, Low Noise Amplifier
• 4.0 P4T-100M40G-110-T-512-292FF-IND: 0.1 to 40.0GHz, SP4T Absorptive Switch
• 5.0 PE2-34-2G18G-3R5-15-12-SFF-VVG-DD: 5.5 to 18.0GHz, Voltage Variable Gain Amplifier
• 6.0 P1T-500M18G-85-T-SFF: 0.5 to 18.0GHz, High Speed, SPST Absorptive Switch
• 7.0 PE2-30-20G20R6G-3R0-10-12-SFF: 20.0 to 26.5GHz, 30dB Gain Low Noise Amplifier
• 8.0 SDLVA-2020-OPT112: 1.0 to 12.0GHz, Truly DC-Coupled SDLVA
• 9.0 PUC-21D5G32D5G-40-29-292F-SFF: 4.0 to 18.0GHz, Amplified Up/Down Converter
• 10.0 P8T-100M40G-95-T-512-292FF-IND: 0.1 to 40.0GHz, High Speed, SP8T Absorptive Switch
• 11.0 TDC-30T-0110-CD-1: 0.1 to 10.0GHz, High Speed, Threshold Detector

New Product Listings

1.0: 0.5 to 18.0GHz, High Speed, High Sensitivity, Diode Detector
PMI Model No. DD-20-218-5PF-1-N-M-OPT0518

PMI Model No. DD-20-218-5PF-1-N-M-OPT0518 is a 0.5 to 18.0GHz, high speed, high sensitivity, diode detector requiring no bias and offering excellent temperature stability with a response time of less than 5 nanoseconds. The frequency range is 0.5 to 18 GHz.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/detectors/DD-20-218-5PF-1-N-M-OPT0518.htm

2.0: 2.0 to 4.2GHz, 12 dB Gain, Low Noise Amplifier

PMI Model No. PE2-12-2G4D2G-5R0-17-12-SFF

PMI Model No. PE2-12-2G4D2G-5R0-17-12-SFF is a 2.0 to 4.2GHz, Low Noise Amplifier that has a typical gain of +12dB and maintains a gain flatness of +/-1.0dB max. It has a maximum noise figure of 5.0dB and offers an OP1dB of +17dBm min. The unit requires +12 to +15VDC with a nominal current draw of 230mA. It is supplied with removable SMA(F) connectors in our standard PE2 housing.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/PE2-12-2G4D2G-5R0-17-12-SFF.htm

3.0: 2.0 to 4.2GHz, 21.5dB Gain, Low Noise Amplifier

PMI Model No. PE2-22-2G4D2G-3R0-19-12-SFF

PMI Model No. PE2-22-2G4D2G-3R0-19-12-SFF is a 2.0 to 4.2GHz, Low Noise Amplifier that has a typical gain of +21.5dB and maintains a gain flatness of +/-1.0dB max. It has a maximum noise figure of 3.0dB and offers an OP1dB of +19dBm min. The unit requires +12 to +15VDC with a nominal current draw of 320mA. It is supplied with removable SMA(F) connectors in our standard PE2 housing.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/PE2-22-2G4D2G-3R0-19-12-SFF.htm
4.0: 0.1 to 40.0GHz, SP4T Absorptive Switch

**PMI Model No. P4T-100M40G-110-T-512-292FF-IND**

PMI Model No. P4T-100M40G-110-T-512-292FF-IND is an absorptive, single pole, four throw pin diode switch that operates over the 0.1 to 40.0GHz frequency range. This model incorporates a TTL compatible driver for easy system integration.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/Switches/P4T-100M40G-110-T-512-292FF-IND.htm

5.0: 5.5 to 18.0GHz, Voltage Variable Gain Amplifier

**PMI Model No. PE2-34-2G18G-3R5-15-SFF-VVG-DD**

PMI Model No. PE2-34-2G18G-3R5-15-SFF-VVG-DD is a voltage variable gain amplifier with integrated diode detector operating over the frequency range of 2.0 to 18.0GHz. This amplifier is supplied in our standard PE2 housing that can be used as SMA connectorized or as a surface mount component. It is optimized for 5.5 to 18.0GHz meeting the specifications below.

Please Click PMI Website Link,

6.0: 0.5 to 18.0GHz, High Speed, SPST Absorptive Switch

**PMI Model No. P1T-500M18G-85-T-SFF**

PMI Model No. P1T-500M18G-85-T-SFF is an absorptive, high speed, single pole single throw...
switch capable of switching within 25ns typically. The frequency range is 500MHz to 18.0GHz. This switch has > 85 dB isolation.

Please Click PMI Website Link,
http://www.pmi-rf.com/products/switches/P1T-500M18G-85-T-SFF.htm

7.0: 20.0 to 26.5GHz, 30dB Gain Low Noise Amplifier

PMI Model No. PE2-30-20G20R6G-3R0-10-12-SFF

PMI Model No. PE2-30-20G20R6G-3R0-10-12-SFF is a 20.0 to 26.5GHz, Low Noise Amplifier. This amplifier is supplied in our standard PE2 housing that can be used as a SMA connectorized or a surface mount component.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/amplifiers/PE2-30-20G20R6G-3R0-10-12-SFF.htm

8.0: 1.0 to 12.0GHz, Truly DC-Coupled SDLVA

PMI Model No. SDLVA-2020-OPT112

PMI Model No. SDLVA-2020-OPT112 is a truly DC-coupled successive detection log video amplifier (SLDVA) that has 40dB dynamic range over the frequency range of 1.0 to 12.0GHz and provides an 8-Bit Digital Log Video Output. The unit employs planar diode detectors and integrated video circuitry for high speed performance and outstanding reliability. The DLVAs are of superior construction using state of the art MIC/MMC technology. The size is 3.0" x 3.5" x 0.5".

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/SDLVA/SDLVA-2020-OPT112.htm

9.0: 4.0 to 18.0GHz, Amplified Up/Down Converter
PMI Model No. PUC-4G18G-CD-1

PMI Model No. PUC-4G18G-CD-1 is an amplified Up/Down Converter for the frequency range of 4.0 to 18.0GHz, with an IF range of 10Mhz to 100MHz. It features a 32dB programmable attenuator with 10-Bit resolution and an output amplifier to provide conversion gain. It also features an IF transfer switch to select the upper or lower sideband.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/multifunctionmodules/PUC-4G18G-CD-1.htm

10.0: 0.1 to 40.0GHz, High Speed, SP8T Absorptive Switch

PMI Model No. P8T-100M40G-95-T-512-292FF-IND

PMI Model No. P8T-100M40G-95-T-512-292FF-IND is a high speed, single pole, eight throw, absorptive switch operating over the frequency range of 100MHz to 40.0GHz. It is capable of switching within 100ns and has 90dB of isolation. This model is supplied with 2.92mm female connectors in a gold plated housing measuring 4.0" x 1.5" x 0.4".

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/Switches/P8T-100M40G-95-T-512-292FF-IND.htm

11.0: 0.1 to 10.0GHz, High Speed, Threshold Detector

PMI Model No. TDC-30T-0110-CD-1

PMI Model No. TDC-30T-0110-CD-1 is a high speed, TTL logic output threshold detector with an input coupler designed to operate from 0.1 to 10GHz.

Please Click PMI Website Link,
http://www.pmi-rf.com/Products/detectors/TDC-30T-0110-CD-1.htm
PMI offers just about any RF/Microwave component, module, or system for both commercial and military based requirements. Please click on the product types below to be directed to our web site catalog. Components and modules can be modified to meet your exact requirement. (Click on links below to be directed to the web listings)

- Low Noise Amplifiers
- Threshold Detectors
- Filters & Switch Filter Banks
- Dielectric Resonator Oscillators
- I/Q Vector Modulators
- Frequency Synthesizers
- Diode Detectors
- Digital Attenuators
- Digitally Tuned Oscillator
- Frequency Discriminators
- I/Q Vector Modulators
- Limiters
- Multifunction Integrated Assemblies
- Phase Shifters
- Power Dividers/Combiners
We truly value your interest in our companies and our products. We appreciate your feedback. Please feel free to contact us with any requirements or questions that you may have.

Sincerely,

PMI Marketing Department
7311-F Grove Road Frederick, MD 21704 USA
Phone (301) 662-5019 / Fax (301) 662-1731

4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA 95762 USA
Phone (916) 542-1401 / Fax (916) 265-2597

Email: sales@pmi-rf.com / Web: www.pmi-rf.com