What We've Been Up To...
New Product Releases & Product Updates

October 15, 2015

*** NEW RELEASES ***
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1.0 PMI Model: SDLVA-18G40G-65-CD-292FF
PMI's Successive Detection Log Video Amplifier (SDLVA) has been designed using cutting edge GaAs technology providing stunning performance and reliability. Its compact package makes it an optimum solution for high speed channelized receiver applications. It has a dynamic range of 65 dB, log slope of 25 mV / dB, a nominal video bandwidth of 32 MHz, and operates between the 18.0 to 40.0 GHz frequency range.

- Input power Handling: 10 dBm max.
- Video Log Range: -63 dBm to +2 dBm
- Video Output at 2dBm: 1940 mV max. / 1476 mV max.
- Video Output at -63dBm: 280 mV max. / 65 mV min.

Click [here](#) for more details...

2.0 PMI Model No. PFT-7R5G17R5G-5BT-8BD-640K
PMI's High Speed 5-Bit Frequency Translator features 8 independently calibrated bands for better amplitude and phase accuracy, resulting in excellent carrier suppression over narrower frequency ranges. It operates over the frequency range of 7.5 to 17.5 GHz.
3.0 PMI Model No. PFT-8G18G-5BT-8BD-640K
PMI's high speed 5-Bit Frequency Translator features 8 independently calibrated bands for better amplitude and phase accuracy, resulting in excellent carrier suppression over narrower frequency ranges. It operates over the frequency range of 8.0 to 18.0 GHz.

- VSWR In/Out: 2.0:1 max. - Measured 1.8:1
- Input Power Level: 15 dBm max (Operating) / 25 dBm max (Survival)
- Amplitude Ripple: 2.5 dB PK-PK max. / Measured 0.72 dB
- Supply Ripple: 200 mV PK-PK max.

Click here for more details...

4.0 PMI Model: PE2-15-30M26R5-5R5-18-12-SFF
PMI's 0.03 to 26.50 GHz Low Noise Amplifier provides a typical gain of 15 dB while maintaining a maximum gain flatness of ±2.0 dB. The typical noise figure is 5.5 dB with a minimum OP1dB of +16 dBm.

- VSWR In/Out: 2.0:1 max. - Input Measured @ 1.91:1 / Output Measured @ 1.83:1
- DC Voltage Supply: +12 to +15 VDC @ 230mA / Measured 250 mA
- Finish - Gold Plated

Click here for more details...

5.0 PMI Model: PTRAN-100M18G-SFB-3UVPX-10HP-MAH
PMI's transceiver fits into a 3U open VPX form factor utilizing the high speed VITA 67 RF connector. This unit up-converts a 100MHz to 4.0GHz transmit signal to the 2.0 to 18.0 GHz range. It also down-converts a 100MHz to 18.0GHz received signal to the 100MHz to 4.0GHz intermediate frequency range for analog to digital conversion. A receive filter bank incorporates a 2-way absorptive switch to select an input along with two 6-way switches allowing one of six filter paths to be chosen. A filter bank is used also on the transmit path with two 6-way switches allowing one of six filter paths to be chosen. The unit is made to attach to an FPGA controller card allowing for total solution in a 10HP (2") form factor.
6.0 PMI Model: PLNA-30-10M6G-P1dB22-120VAC

PMI's gone portable! This portable amplifier operates over the 10.0 MHz to 6.0 GHz, frequency range. This model provides a typical gain of 30dB with an output P1dB of +22dBm. This amplifier features an illuminated push button On/Off switch in a small package.

- Gain Flatness: ±2.0 dB max. - Measured ±1.35 dB
- Noise Figure: 4.5 dB typ., 5.25 dB max. / Measured 4.9 dB
- VSWR In/Out: 2.0:1 typ. - Measured 1.99:1
- Maximum RF Input: +10 dBm CW

Click here for more details...

7.0 PMI Model: PEC-20-200M6G-3R0-25-SFF

PMI's 200MHz to 6.0GHz, Low Noise Amplifier, has a gain of 20dB with ±1.5dB flatness, an OP1dB of +25dBm minimum, and a noise figure of 3.5dB. This unit is supplied with SMA female connectors.

- VSWR In/Out: 1.8:1 Goal - Measured 2.3:1
- DC Supply: +12 to +15VDC @ 575 mA nominal/ Measured 437 mA
- Size: 1.92" x 0.78" x 0.36"

Click here for more details...

8.0 PMI Model: P1T-DC40G-65-T-24FM-1NS

PMI's Absorptive, Single Pole, Single Throw Pin Diode Switch operates from DC to 40 GHz. This model incorporates a TTL compatible driver for easy system integration.
**Isolation:** 65 dB typ., 55 dB min. /Measured 61.1 dB
**Insertion Loss:** 5.5 dB typ., 6.8 dB max. /Measured 6.4 dB
**VSWR In/Out:** 2.0:1 typ., 2.2:1 max. /Measured 2.13:1
**Input Power:** +17 dBm CW max.

*Click here for more details...*

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**PRODUCT UPDATES***

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9.0 PMI Model: PS-90-2040 Opt HS15NS
PMI's Miniature, 0 to 180 degree Bi-Phase Modulator / Phase Shifter has TTL Control Logic (ECL Logic available), and operates over a frequency range of 2.0 to 4.0 GHz.

- Insertion Loss: 2.5 dB typ., 3.0dB max. - Measured 0.91 dB
- VSWR Input: 2.0:1 - Measured 1.6:1
- Operating Input Power: +20 dBm Operating
- Speed: 15 ns typ. On/Off - Measured 12.2 ns

*Click here for more details...

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10.0 PMI Model: P2T-1G1R1G-25-R-SFF-100W
PMI's single pole, two throw, hermetically sealed reflective switch is designed to operate over the 1.0 to 1.1GHz frequency range. This model is designed to handle 100 Watts average input power and 5KW peak having a 17usec pulse width and 2% duty cycle.

- Insertion Loss: 0.8 dB max, (Measured 0.49 dB)
- Isolation: 25 dB min., (Measured 40.09 dB)
- VSWR: 1.5:1
- Rise Time: 275 ns typ - From 10% to 90% RF

*Click here for more details...

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*** For more information on PMI's complete line of products, please visit ***
http://www.pmi-rf.com/index.htm
DC to 40GHz Components, Modules, and Sub-Systems

PMI offers just about any RF/Microwave component, module, or sub-system for both industrial 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 and 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 company and our products. We appreciate your feedback. Please feel free to contact us with any requirements or questions that you may have.

Sincerely,

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