Presenting...

New Product Releases from
Planar Monolithics Industries, Inc.
March 19, 2020

1.0 PMI Model No. LM-10M14G-100W-1KWP-SFF-OPT17, 1.0 to 7.0 GHz Limiter

PMI Model No. LM-10M14G-100W-1KWP-SFF-OPT17 is a Limiter that operates over the 1.0 to 7.0 GHz frequency range. It has a maximum insertion loss of 2 dB and a maximum VSWR of 2.0:1 (at -10 dBm input). This model is outfitted with a SMA male and a SMA female connector in a housing measuring 0.90" x 0.38" x 0.38".

- Frequency Range: 1.0 to 7.0 GHz
- Insertion Loss: 2 dB Typ. - Measured 1.11 dB
- Input/Output VSWR: 2.0:1 Max. (At -10 dBm Input) - Measured 1.88:1/1.87:1
- Impedance: 50 Ohms
- Input Power:
  - 100 W CW Max. (1.0 to 7.0 GHz)
  - All Temperatures (-55°C to +85°C)
  - 1 kW Peak (1% Duty Cycle, 1 us Pulse Width)
  - 100 W Peak (10% Duty Cycle, 10 us Pulse Width)
2.0 PMI Model No. P2T-6G18G-40-R-570-TFF-1D5KW-120W, 6.0 to 18.0 GHz SP2T Reflective Switch

P2T-6G18G-40-R-570-TFF-1D5KW-120W is a Single Pole, Two Throw, Reflective Switch that operates over the 6.0 to 18.0 GHz frequency range. It has a power of 120 W CW (1.5 kW Peak) and a typical switching speed of 1.1 us. This model is outfitted with TNC female connectors and a 9-Pin Micro-D female connector in a housing measuring 2.00" x 2.00" x 0.75".

- Frequency Range: 6.0 to 18.0 GHz
- Power: 120 W CW (1.5 kW Peak)
- Duty Cycle: 8%
- Insertion Loss: 2.3 dB Max. - Measured 2.27 dB
- Isolation: 35 dB Typ. - Measured 35.49 dB
- Pulse Width: 250 us Max.
- Switching Speed: 1.25 us Max., 1.1 us Typ. (50% TTL to 90% RF & 50% TTL to 10% RF) - Measured 916.85 ns
- VSWR In/Out: 2:1 Max. - Measured 1.81:1/1.9:1
- Load VSWR: Better than 1.5:1
- DC Voltage and Current:
  - +5 V @ 300 mA - Measured 110 mA
  - -70 V @ 60 mA - Measured 12 mA

3.0 PMI Model No. P2T-8G12G-40-R-570-TFF-1D5KW-120W, 8.0 to 12.0 SP2T Reflective Switch

P2T-8G12G-40-R-570-TFF-1D5KW-120W is a Single Pole, Two Throw, Reflective Switch that operates over the 8.0 to 12.0 GHz frequency range. It has a power of 1.5 kW Peak (120 W CW) and a typical switching speed of 1.1 us. This model is outfitted with TNC female connectors and a 9-Pin Micro-D female connector in a housing measuring 2.00" x 2.00" x 0.75".

- Frequency Range: 8.0 to 12.0 GHz
- Power: 1.5 kW Peak (120 W CW)
- Duty Cycle: 8%
- Insertion Loss: 2.0 dB Max. - Measured 1.65 dB
- Isolation: 40 dB Typ. - Measured 43.45 dB
- Pulse Width: 250 us Max.
- Switching Speed: 1.25 us Max., 1.1 us Typ. (50% TTL to 90% RF & 50% TTL to 10% RF) - Measured 916.85 ns
- VSWR In/Out: 1.80:1 Max. - Measured 1.77:1/1.73:1
4.0 PMI Model No. P2T-9D2G10G-40-R-570-TFF-1D6KW-200W, 9.2 to 10.0 GHz SP2T Reflective Switch

PMI Model No. P2T-9D2G10G-40-R-570-TFF-1D6KW-200W is a 9.2 to 10.0 GHz, Single Pole, Two Throw, Reflective Switch. It has a power of 1.6 kW Peak (200 W CW) and a typical switching speed of 1.1 us. It has TNC female connectors and a 9-Pin Micro-D female connector in a housing is measured at 3.50" x 0.75" x 0.30".

- Frequency Range: 9.2 to 10.0 GHz
- Power: 1.6 kW Peak (200 W CW)
- Duty Cycle: 12.5%
- Insertion Loss: 1.75 dB Max. - Measured 1.65 dB
- Isolation: 40 dB Typ. - Measured 43.45 dB
- Pulse Width: 250 us Max.
- Switching Speed: 1.25 us Max., 1.1 us Typ. (50% TTL to 90% RF & 50% TTL to 10% RF) - Measured 916.85 ns
- VSWR In/Out: 1.75:1 Max. - Measured 1.77:1/1.73:1
- Load VSWR: Better than 1.5:1
- DC Voltage & Current:
  - +5 V @ 300 mA - Measured 110 mA
  - -70 V @ 60 mA - Measured 12 mA

PMI Website Link,
https://www.pmi-rf.com/product-details/p2t-9d2g10g-40-r-570-tff-1d6kw-200w

5.0 PMI Model No. DTA-0R4G18G-60-CD-1, 0.4 to 18.0 GHz Attenuator

PMI Model No. DTA-0R4G18G-60-CD-1 is a 10-Bit Programmable Attenuator that operates over the 0.4 to 18.0 GHz frequency range. It has a maximum insertion loss of 4.8 dB and a minimum operating power of 15 dBm. This model is outfitted with SMA female connectors and a 15-Pin Micro-D female connector in a housing measuring 2.00" x 1.80" x 0.50".

- Frequency Range: 0.4 to 18.0 GHz
- Mean Attenuation Range: 60 dB
- Insertion Loss: 4.8 dB Max. - Measured 3.7 dB
- VSWR: 2.0:1 Max. - Measured 1.9:1
- Flatness Up To:
  - 20 dB: ±1.0 dB Typ. - Measured ±0.53 dB
  - 40 dB: ±1.25 dB Typ. - Measured ±1.07 dB
  - 60 dB: ±3.0 dB Typ.
- Accuracy of Attenuation:
  - 0 to 20 dB: ±1.0 dB Typ. - Measured ±0.62 dB
  - 20 to 40 dB: ±1.5 dB Typ. - Measured ±0.89 dB
  - 40 to 60 dB: ±2.0 dB Typ. - Measured ±1.03 dB
6.0 PMI Model No. DTA-2G18G-60-CD-1-OPT618-2, 6.0 to 18.0 GHz Attenuator

PMI Model No. DTA-2G18G-60-CD-1-OPT618-2 is a 6.0 to 18.0 GHz, 10-Bit Programmable Attenuator. It has a maximum insertion loss of 4.5 dB with a maximum VSWR of 2.0:1. The housing is measured at 2.00" x 1.81" x 0.88" and has SMA female connectors and a 15-Pin D-Sub connector.

- Frequency Range: 6.0 to 18.0 GHz
- Mean Attenuation Range: 60 dB - Measured 61 dB
- Insertion Loss: 4.5 dB Max. - Measured 4 dB
- VSWR: 2.0:1 Max. - Measured 1.8:1
- Flatness Up To:
  - 20 dB: ±1.0 dB Typ. - Measured ±0.76 dB
  - 40 dB: ±1.25 dB Typ. - Measured ±0.79 dB
  - 60 dB: ±3.0 dB Typ. - Measured ±2.3 dB
- Accuracy of Attenuation:
  - 0 to 20 dB: ±1.0 dB Typ. - Measured ±0.6 dB
  - 20 to 40 dB: ±1.5 dB Typ. - Measured ±1.0 dB
  - 40 to 60 dB: ±2.0 dB Typ. - Measured ±1.24 dB
- Minimum Attenuation Step: 0.06 dB - Measured 0.02 dB
- Survival Power: 1 W Average from -65°C to +25°C
- Switching Time:
  - On Time: 1.0 us Max.
  - Off Time: 0.5 us Max.
- DC Power Supply:
  - +15 V @ 100 mA Max. - Measured 72 mA
  - -15 V @ 100 mA Max. - Measured 49 mA
- Logic Input:
  - Logic "0" (Bit Off): -0.3 to +0.8 V
  - Logic "1" (Bit On): +2.0 to +5.0 V

PMI Website Link,
https://www.pmi-rf.com/product-details/dta-2g18g-60-cd-1-opt618-2

7.0 PMI Model No. APD-8-2G18G-SFF-30W, 2.0 to 18.0 GHz Power Divider
PMI Model No. APD-8-2G18G-SFF-30W is a 2.0 to 18.0 GHz, 8-Way Power Divider. It has a maximum insertion loss of 2.6 dB (above 9.03 dB split) and a minimum isolation of 16 dB. The housing is measured at 4.230" x 3.528" x 0.394".

- Frequency Range: 2.0 to 18.0 GHz
- Insertion Loss: 2.6 dB Max. (Above 9.03 dB Split) - Measured 2.24 dB
- VSWR Input/Output: 1.70:1 Max./1.60:1 Max. - Measured 1.55:1
- Isolation: 16 dB Min. - Measured 18.47 dB
- Amplitude Balance: ±0.6 dB Max. - Measured ±0.32 dB/-0.30 dB
- Phase Balance: ±8° Max. - Measured ±2.44°/-2.74°
- Power Handling:
  - Forward: 30 W Max.
  - Reversed: 1 W Max.
- Impedance: 50 Ohms

PMI Website Link, https://www.pmi-rf.com/product-details/apd-8-2g18g-sff-30w

8.0 PMI Model No. PE2-60-1R018R0-4R5-22-12-SFF, 1.0 to 18.0 GHz Low Noise Amplifier

PMI Model No. PE2-60-1R018R0-4R5-22-12-SFF is a 1.0 to 18.0 GHz Low Noise Amplifier. It has a typical noise figure of 4.5 dB and a typical gain of 60 dB. The unit is supplied in a housing measuring 2.797" x 1.120" x 0.390" and has SMA female connectors.

- Frequency Range: 1.0 to 18.0 GHz
- Gain: 60 dB Typ. - Measured 62.59 dB
- Gain Flatness: ±3.0 dB Typ. - Measured ±2.62 dB
- Noise Figure: 4.5 dB Typ. - Measured 4.26 dB
- OP1dB: 22 dBm Min. - Measured 24.53 dBm
- VSWR (Input/Output): 2.0:1 Max. - Measured 1.89:1
- DC Voltage Supply: +12 to +15 VDC
- DC Current Draw: 650 mA Typ.

PMI Website Link, https://www.pmi-rf.com/product-details/pe2-60-1r018r0-4r5-22-12-sff

9.0 PMI Model No. PRX-20-1G18G-850M-SFF, 1.0 to 18.0 GHz Channelized Receiver
PMI Model No. PRX-20-1G18G-850M-SFF is a Channelized Receiver that operates over the frequency 1.0 to 18.0 GHz. It has a typical VSWR of 2:1 and an output power of +20 dBm. The housing is measured at 8.00" x 10.00" x 2.28" and has SMA female and 9-Pin D-Sub male connectors.

- **RF Input:**
  - Frequency: 1.0 to 18.0 GHz
  - Input Power: -58 to +2 dB Typ.
  - VSWR: 2:1 Typ.
  - Spurious Free Dynamic Range: 60 dB Min.
- **RF Outputs:**
  - Frequency: 5.0 GHz Max., 4.4 GHz Typ.
  - Channels: 20
  - Gain: 0 dB ± 3 dB Typ.
  - Passband: 870 MHz Typ.
  - Stopband: 1.4 GHz Max.
- **Reference Output:**
  - Frequency: 10 MHz
  - Output Power: +20 dBm
  - Stability: ±0.1 PPM
  - Aging: ±30 PPB Yearly
- **Power Supply:**
  - +12 V ± 5% @ 3 A Max.
  - +7 V to +12 V ± 5% @ 4.5 A Max.
  - -5 V ± 5% @ 1 A Max.

**PMI Website Link,**
https://www.pmi-rf.com/product-details/prx-20-1g18g-850m-sff

**10.0 PMI Model No. PL-ENET-18BIT-0V5V-2X, Dual Microprocessor Module**

PMI Model No. PL-ENET-18BIT-0V5V-2X is a Dual Microprocessor Module with a DC power of 6 V @ 1 A and a voltage protection of ±10 V. It is supplied in a housing measuring 6.00" x 5.00" x 1.25".

- **Switch:** Red Light Lit Push Button
- **Power Connector:** 2.1 mm ID x 5.5 mm OD DC Connector
- **Digital Output:** 25 Pin D-Sub (F)
- **Ethernet:** RJ-45 (x2)
- **IP Address:** Factory Preset
- **DC Power:** 6 V @ 1 A
- **Voltage Protection:** ±10 V
- **TTL Protection:** 1 K Ohms
- **Digital Output:** 0 to 5 V (Thru 1 K Ohms)
- **Number of Bits:** 18 Bit (x2)

**PMI Website Link,**
https://www.pmi-rf.com/product-details/pl-enet-18bit-0v5v-2x

**11.0 PMI Model No. PL-MCU-ENET-TTL-MAH, Ethernet Microcontroller Test Box**
PMI Model No. PL-MCU-ENET-TTL-MAH is an Ethernet Microcontroller Test Box with a typical power supply of +5 V @ 150 mA. It is supplied in a housing measuring 4.5" x 3.0" x 1.5".

- Power Supply: +5 V @ 150 mA Typ.
- IP Address: Factory Preset


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