Presenting...

New Product Releases from
Planar Monolithics Industries, Inc.
November 15, 2020

1.0 PMI Model No. LM-10M37G-15DBM-10W-AGAL, 10 MHz to 37.0 GHz, Limiter

PMI Model No. LM-10M37G-15DBM-10W-AGAL is a Limiter that operates over the 10 MHz to 37.0 GHz frequency range. It has a maximum insertion loss of 4.3 dB and a maximum VSWR of 1.8:1. This model is outfitted with 2.92 female connectors in a housing measuring 0.53" x 0.70" x 0.26".

- Frequency Range: 10 MHz to 37.0 GHz
- Power Handling:
  - 25 W CW Max. (20 MHz to 1.0 GHz)
  - 10 W CW Max. (2.0 to 18.0 GHz)
- Peak Input Power:
  - 50 W Peak Max. (20 MHz to 12.0 GHz)
  - 40 W Peak Max. (18.0 GHz)
  - (1 us Pw, 1% Duty Cycle)
PMI Model No. LM-10M35G-15DBM-4W-292FF is a Limiter that operates over the 10 MHz to 35.0 GHz frequency range. It has a typical recovery time of 150 ns and a maximum VSWR of 2.0:1. This model is outfitted with 2.92 female connectors in a housing measuring 0.53" x 0.70" x 0.26".

- **Frequency Range**: 10 MHz to 35.0 GHz
- **Power Handling**:
  - 25 W CW Max. (20 MHz)
  - 10 W CW Max. (1.0 GHz)
  - 8 W CW Max. (2.0 GHz)
  - 5 W CW Max. (4.0 GHz)
  - 4 W CW Max. (8.0 to 18.0 GHz)
- **Peak Input Power**:
  - 50 W Peak Max. (20 MHz to 12.0 GHz)
  - 40 W Peak Max. (18.0 GHz)
  - (1 us Pw, 1% Duty Cycle)
- **Recovery Time**: 150 ns Typ.
- **Insertion Loss @ -10 dBm Input Power**:
  - 1.3 dB Max. (10 MHz to 8.0 GHz) - Measured 1.19 dB
  - 2.3 dB Max. (8.0 to 18.0 GHz) - Measured 2.15 dB
  - 2.6 dB Max. (18.0 to 25.0 GHz) - Measured 2.35 dB
  - 4.0 dB Max. (25.0 to 35.0 GHz) - Measured 3.76 dB
- **VSWR In/Out @ -10 dBm Input Power**: 2.0:1 Max. - Measured 1.97:1
- **Flat Leakage Power**:
  - +18 dBm Typ. (20 MHz to 2.0 GHz)
  - +18 dBm Typ. (2.0 to 4.0 GHz)
  - +16 dBm Typ. (4.0 to 8.0 GHz)
  - +12 dBm Typ. (8.0 to 12.0 GHz)
  - +10 dBm Typ. (12.0 to 18.0 GHz)
  - +10 dBm Typ. (20.0 to 28.0 GHz)
PMI Website Link, 
https://www.pmi-rf.com/product-details/lm-10m35g-15dbm-4w-292ff

3.0 PMI Model No. LM-10M40G-15DBM-4W-AGAL, 10 MHz to 40.0 GHz, Limiter

PMI Model No. LM-10M40G-15DBM-4W-AGAL is a Limiter that operates over the 10 MHz to 40.0 GHz frequency range. It has a maximum recovery time of 100 ns and a maximum VSWR of 2.0:1. This model is outfitted with 2.92 female connectors in a housing measuring 0.53" x 0.70" x 0.26".

- Frequency Range: 10 MHz to 40.0 GHz
- Power Handling:
  - 5 W CW Max. (20 MHz to 12.0 GHz)
  - 4 W CW Max. (18.0 GHz)
- Peak Input Power:
  - 25 W Peak Max. (20 MHz to 12.0 GHz)
  - 20 W Peak Max. (18.0 GHz)
  - (1 us Pw, 1% Duty Cycle)
- Recovery Time: 100 ns Max.
- Insertion Loss @ -10 dBm Input Power:
  - 1.0 dB Max. (10 MHz to 8.0 GHz) - Measured 0.78 dB
  - 1.5 dB Max. (8.0 to 18.0 GHz) - Measured 1.42 dB
  - 3.2 dB Max. (18.0 to 40.0 GHz) - Measured 3.13 dB
- VSWR In/Out @ -10 dBm Input Power: 2.0:1 Max. - Measured 1.82:1/1.81:1
- Flat Leakage Power:
  - +22 dBm Max. (20 MHz to 1.0 GHz) - Measured 21.27 dBm
  - +20 dBm Max. (1.0 to 4.0 GHz) - Measured 19.21 dBm
  - +18 dBm Max. (4.0 to 8.0 GHz) - Measured 17.13 dBm
  - +15 dBm Max. (8.0 to 12.0 GHz) - Measured 14.2 dBm
  - +13 dBm Max. (12.0 to 18.0 GHz) - Measured 11.24 dBm
  - +13 dBm Max. (20.0 to 28.0 GHz) - Measured 12.97 dBm
  - +12 dBm Max. (28.0 to 32.0 GHz) - Measured 11.79 dBm
  - +12 dBm Max. (32.0 to 40.0 GHz) - Measured 11.51 dBm
- P1dB: +7 dBm Min. - Measured 7.5 dBm

PMI Website Link, 
https://www.pmi-rf.com/product-details/lm-10m40g-15dbm-4w-agal

4.0 PMI Model No. LM-10M50G-18DBM-4W-24FF, 10 MHz to 50.0 GHz, Limiter

PMI Model No. LM-10M50G-18DBM-4W-24FF is a 10 MHz to 50.0 GHz, Limiter It has a typical recovery time of 100 ns and a maximum VSWR of 2.0:1. It has 2.4 female connectors in a housing measured at 0.53" x 0.70" x 0.26".

- Frequency Range: 10 MHz to 50.0 GHz
- Power Handling: 4 W CW Max.
- Peak Input Power:
  - 20 W Max.
  - (Pw 1 us, 1% Duty Cycle) Tested up to 18.0 GHz
5.0 PMI Model No. LM-10M50G-20DBM-1W-24FF, 10 MHz to 50.0 GHz, Limiter

PMI Model No. LM-10M50G-20DBM-1W-24FF is a Limiter that operates over the 10 MHz to 50.0 GHz frequency range. It has a maximum recovery time of 100 ns and a maximum VSWR of 2.0:1. This model is outfitted with 2.4 female connectors in a housing measuring 0.53" x 0.70" x 0.26".

- Frequency Range: 10 MHz to 50.0 GHz
- Power Handling:
  - 1.5 W CW Max. (20 MHz to 12.0 GHz)
  - 1 W CW Max. (18.0 GHz)
- Peak Input Power:
  - 10 W Peak Max. (20 MHz to 1.0 GHz)
  - 6 W Peak Max. (4.0 to 8.0 GHz)
  - 4 W Peak Max. (12.0 to 18.0 GHz)
- Recovery Time: 100 ns Max. - Measured 74 ns
- Insertion Loss @ -10 dBm Input Power:
  - 1.5 dB Max. (10 MHz to 18.0 GHz) - Measured 1.29 dB
  - 2.2 dB Max. (18.0 to 40.0 GHz) - Measured 1.83 dB
  - 3.4 dB Max. (40.0 to 50.0 GHz) - Measured 3.07 dB
- VSWR In/Out @ -10 dBm Input Power: 2.0:1 Max. - Measured 1.94:1/1.92:1
- Flat Leakage Power: +18 dBm Typ.
- P1dB: +15 dBm Typ.

PMI Website Link,
https://www.pmi-rf.com/product-details/Im-10m50g-18dbm-4w-24ff

6.0 PMI Model No. LM-150M5G-200CW-2KWPK-AGAL, 0.15 to 5.0 GHz, Limiter

PMI Model No. LM-150M5G-200CW-2KWPK-AGAL is a Limiter that operates over the 0.15 to 5.0 GHz frequency range. It has a maximum recovery time of 100 ns and a maximum VSWR of 1.70:1. This model is outfitted with SMA female connectors in a housing measuring 1.00" x 0.68" x 0.35".

- Frequency Range: 0.15 to 5.0 GHz
- Power Handling:
  - 200 W CW (+53 dBm) Typ.
  - 2 kW Peak Power (+63 dBm) Typ.
Insertion Loss:
- 2.0 dB Max. (0.15 to 0.3 GHz) - Measured 1.89 dB
- 1.5 dB Max. (0.3 to 5.0 GHz) - Measured 1.17 dB

VSWR (In/Out): 1.70:1 Max. - Measured 1.68:1/1.67:1

Flat Leakage Power: +20 dBm Typ.
P1dB: +6 dBm Min. - Measured 6.5 dBm
Recovery Time: 100 ns Max. - Measured 33.11 ns

**PMI Website Link,**
[https://www.pmi-rf.com/product-details/lm-150m5g-200cw-2kwpk-agal](https://www.pmi-rf.com/product-details/lm-150m5g-200cw-2kwpk-agal)

### 7.0 PMI Model No. LM-10M62G-20DBM-1W-24FF, 10 MHz to 62.0 GHz, Limiter

PMI Model No. LM-10M62G-20DBM-1W-24FF is a Limiter that operates over the 10 MHz to 62.0 GHz frequency range. It has a maximum recovery time of 100 ns and a maximum VSWR of 3.0:1. This model is outfitted with 2.4 female connectors in a housing measuring 0.53" x 0.0.70" x 0.26".

- Frequency Range: 10 MHz to 62.0 GHz
- Power Handling:
  - 1.5 W CW Max. (20 MHz to 12.0 GHz)
  - 1.0 W CW Max. (18.0 GHz)
- Peak Input Power:
  - 10 W Peak Max. (20 MHz to 1.0 GHz)
  - 6 W Peak Max. (4.0 to 8.0 GHz)
  - 4 W Peak Max. (12.0 to 18.0 GHz)
  - (Pw 1 us, 1% Duty Cycle)
- Insertion Loss (-10 dBm Input Power):
  - 1.5 dB Max. (10 MHz to 18.0 GHz) - Measured 0.95 dB
  - 2.3 dB Max. (18.0 to 40.0 GHz) - Measured 1.64 dB
  - 2.5 dB Typ. (40.0 to 50.0 GHz) - Measured 2.43 dB
  - 4.0 dB Typ. (50.0 to 62.0 GHz)
- VSWR In/Out (-10 dBm Input Power):
  - 1.8:1 Max. (10 MHz to 18.0 GHz) - Measured 1.67:1
  - 2.0:1 Max. (18.0 to 40.0 GHz) - Measured 1.93:1
  - 2.2:1 Max. (40.0 to 50.0 GHz) - Measured 2.1:1
  - 3.0:1 Typ. (50.0 to 62.0 GHz) - Measured 2.97:1
- Flat Leakage Power: +22 dBm Typ.
P1dB: +16 dBm Typ.
Recovery Time: 100 ns Max. - Measured 74 ns

**PMI Website Link,**
[https://www.pmi-rf.com/product-details/lm-10m62g-20dbm-1w-24ff](https://www.pmi-rf.com/product-details/lm-10m62g-20dbm-1w-24ff)

### 8.0 PMI Model No. APD-8-0R523G-292FF, 0.5 to 23.0 GHz, 8-Way Power Divider

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PMI Model No. APD-8-0R523G-292FF is a 0.5 to 23.0 GHz, 8-Way Power Divider. It has a maximum insertion loss 7.0 dB and a typical isolation of 10 dB. The housing is measured at 5.00" x 3.70" x 0.43" and has 2.92 female connectors.

- **Frequency Range:** 0.5 to 23.0 GHz
- **Insertion Loss:**
  - 2.0 dB Max. (0.5 to 1.0 GHz) - Measured 1.77 dB
  - 2.0 dB Max. (1.0 to 2.0 GHz) - Measured 1.69 dB
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.0 dB
  - 5.0 dB Max. (18.0 to 22.0 GHz) - Measured 4.81 dB
  - 7.0 dB Max. (22.0 to 23.0 GHz) - Measured 6.34 dB
- **Insertion Loss Flatness (Ref Line of Best Fit)**
  - ±1 dB Max. (0.5 to 20.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (1.0 to 20.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (2.0 to 20.0 GHz) - Measured ±0.7 dB
  - ±1 dB Max. (0.5 to 18.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (1.0 to 18.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (2.0 to 18.0 GHz) - Measured ±0.7 dB
  - ±2 dB Max. (20.0 to 23.0 GHz) - Measured ±1.8 dB
- **VSWR Input:**
  - 2.5:1 Typ. (0.5 to 1.0 GHz) - Measured 2.41:1
  - 2.6:1 Max. (1.0 to 2.0 GHz) - Measured 2.5:1
  - 2.1:1 Max. (2.0 to 8.0 GHz) - Measured 2.04:1
  - 2.0:1 Max. (8.0 to 18.0 GHz) - Measured 1.99:1
  - 2.0:1 Typ. (18.0 to 22.0 GHz)
  - 2.0:1 Typ. (22.0 to 23.0 GHz)
- **VSWR Output:**
  - 1.5:1 Max. (0.5 to 1.0 GHz) - Measured 1.28:1
  - 1.5:1 Max. (1.0 to 2.0 GHz) - Measured 1.24:1
  - 1.7:1 Max. (2.0 to 8.0 GHz) - Measured 1.65:1
  - 1.8:1 Max. (8.0 to 18.0 GHz) - Measured 1.7:1
  - 2.0:1 Max. (18.0 to 22.0 GHz) - Measured 1.78:1
  - 2.0:1 Max. (22.0 to 23.0 GHz) - Measured 1.66:1
- **Isolation:**
  - 10 dB Typ. (0.5 to 1.0 GHz)
  - 10 dB Typ. (1.0 to 2.0 GHz) - Measured 11.21 dB
  - 20 dB Typ. (2.0 to 8.0 GHz)
  - 20 dB Typ. (8.0 to 18.0 GHz)
  - 15 dB Typ. (18.0 to 22.0 GHz)
  - 10 dB Typ. (22.0 to 23.0 GHz)
- **Amplitude Balance:**
  - ±0.5 dB Max. (0.5 to 1.0 GHz) - Measured ±0.31 dB
  - ±0.5 dB Max. (1.0 to 2.0 GHz) - Measured ±0.31 dB
  - ±0.3 dB Max. (2.0 to 8.0 GHz) - Measured ±0.17 dB
  - ±0.5 dB Max. (8.0 to 18.0 GHz) - Measured ±0.42 dB
  - ±1.2 dB Max. (18.0 to 22.0 GHz) - Measured ±0.90 dB
  - ±2.0 dB Max. (22.0 to 23.0 GHz) - Measured ±1.46 dB
- **Phase Balance:**
  - 5° Max. (0.5 to 1.0 GHz) - Measured 4.43°
  - 3° Max. (1.0 to 2.0 GHz) - Measured 1.24°
  - 4° Max. (2.0 to 8.0 GHz) - Measured 3.76°
  - 10° Max. (8.0 to 18.0 GHz) - Measured 9.11°
  - 15° Max. (18.0 to 22.0 GHz) - Measured 13.18°
  - 20° Max. (22.0 to 23.0 GHz) - Measured 13.29°
PMI Website Link,
https://www.pmi-rf.com/product-details/apd-8-0r523g-292ff

9.0 PMI Model No. APD-8-2G18G-292FF, 2.0 to 18.0 GHz, 8-Way Power Divider

PMI Model No. APD-8-2G18G-292FF is an 8-Way Power Divider that operates over the 2.0 to 18.0 GHz frequency range. It has a maximum insertion loss of 3.2 dB and a typical isolation of 20 dB. This model is outfitted with 2.92 mm female connectors in a housing measuring 5.00" x 3.70" x 0.43".

- Frequency Range: 2.0 to 18.0 GHz
- Insertion Loss:
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.0 dB
- VSWR Input:
  - 2.1:1 Max. (2.0 to 8.0 GHz) - Measured 2.01:1
  - 2.0:1 Max. (8.0 to 18.0 GHz) - Measured 1.88:1
- VSWR Output:
  - 1.7:1 Max. (2.0 to 8.0 GHz) - Measured 1.64:1
  - 1.8:1 Max. (8.0 to 18.0 GHz) - Measured 1.69:1
- Isolation:
  - 20 dB Typ. (2.0 to 8.0 GHz)
  - 20 dB Typ. (8.0 to 18.0 GHz)
- Amplitude Balance:
  - ±0.3 dB Max. (2.0 to 8.0 GHz) - Measured ±0.17 dB
  - ±0.5 dB Max. (8.0 to 18.0 GHz) - Measured ±0.42 dB
- Phase Balance:
  - 4° Max. (2.0 to 8.0 GHz)
  - 10° Typ. (8.0 to 18.0 GHz)
- Average Power: 25 W (Into 1.2:1 Load VSWR)

PMI Website Link,
https://www.pmi-rf.com/product-details/apd-8-2g18g-292ff

10.0 PMI Model No. APD-8-2G20G-292FF, 2.0 to 20.0 GHz, 8-Way Power Divider

PMI Model No. APD-8-2G20G-292FF is a 2.0 to 20.0 GHz, 8-Way Power Divider. It has a maximum insertion loss of 5.0 dB and a typical isolation of 20 dB. The housing is outfitted with 2.92 female connectors and is measured at 5.00" x 3.70" x 0.43".

- Frequency Range: 2.0 to 20.0 GHz
- Insertion Loss:
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.0 dB
  - 5.0 dB Max. (18.0 to 20.0 GHz) - Measured 3.63 dB
- Insertion Loss Flatness (Ref Line of Best Fit):
  - ±1 dB Max. (2.0 to 20.0 GHz) - Measured ±0.76 dB
11.0 PMI Model No. APD-8-0R520G-292FF, 0.5 to 20.0 GHz, 8-Way Power Divider

PMI Model No. APD-8-0R520G-292FF is a 0.5 to 20.0 GHz, 8-Way Power Divider. It has a maximum insertion loss of 5.0 dB and a typical isolation of 15 dB. The housing is measured at 5.00" x 3.70" x 0.43" and has 2.92 mm female connectors.

- Frequency Range: 0.5 to 20.0 GHz
- Insertion Loss:
  - 2.0 dB Max. (0.5 to 1.0 GHz) - Measured 1.77 dB
  - 2.0 dB Max. (1.0 to 2.0 GHz) - Measured 1.69 dB
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.00 dB
  - 5.0 dB Max. (18.0 to 20.0 GHz) - Measured 3.63 dB
- Insertion Loss Flatness (Ref Line of Best Fit):
  - ±1 dB Max. (0.5 to 20.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (1.0 to 20.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (2.0 to 20.0 GHz) - Measured ±0.7 dB
  - ±1 dB Max. (0.5 to 18.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (1.0 to 18.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (2.0 to 18.0 GHz) - Measured ±0.7 dB
- VSWR Input:
  - 2.5:1 Typ. (0.5 to 1.0 GHz) - Measured 2.41:1
  - 2.6:1 Max. (1.0 to 2.0 GHz) - Measured 2.5:1
  - 2.1:1 Max. (2.0 to 8.0 GHz) - Measured 2.04:1
  - 2.0:1 Max. (8.0 to 18.0 GHz) - Measured 1.99:1
  - 2.0:1 Typ. (18.0 to 20.0 GHz) - Measured 1.9:1
12.0 PMI Model No. APD-8-1G18G-292FF, 1.0 to 18.0 GHz, 8-Way Power Divider

PMI Model No. APD-8-1G18G-292FF is a 1.0 to 18.0 GHz, 8-Way Power Divider. It has a maximum insertion loss of 3.2 dB and a typical isolation of 20 dB. The housing is measured at 5.00" x 3.70" x 0.43" and has 2.92 mm female connectors.

- Frequency Range: 1.0 to 18.0 GHz
- Insertion Loss:
  - 2.0 dB Max. (1.0 to 2.0 GHz) - Measured 1.69 dB
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.00 dB
- Insertion Loss Flatness (Ref Line of Best Fit):
  - ±1 dB Max. (1.0 to 18.0 GHz) - Measured ±0.79 dB
  - ±1 dB Max. (2.0 to 18.0 GHz) - Measured ±0.76 dB
- VSWR Input:
  - 2.6:1 Max. (1.0 to 2.0 GHz) - Measured 2.5:1
  - 2.1:1 Max. (2.0 to 8.0 GHz) - Measured 2.04:1
  - 2.0:1 Max. (8.0 to 18.0 GHz) - Measured 1.99:1
- VSWR Output:
  - 1.5:1 Max. (1.0 to 2.0 GHz) - Measured 1.24:1
  - 1.7:1 Max. (2.0 to 8.0 GHz) - Measured 1.65:1
  - 1.8:1 Max. (8.0 to 18.0 GHz) - Measured 1.7:1

PMI Website Link,
https://www.pmi-rf.com/product-details/apd-8-0r520g-292ff
13.0 PMI Model No. APD-8-1G20G-292FF, 1.0 to 20.0 GHz, 8-Way Power Divider

PMI Model No. APD-8-1G20G-292FF is a 1.0 to 20.0 GHz, 8-Way Power Divider. It has a maximum insertion loss of 5.0 dB and a typical isolation of 20 dB. The housing is outfitted with 2.92 mm female connectors and is measured at 5.00" x 3.70" x 0.43".

- Frequency Range: 1.0 to 20.0 GHz
- Insertion Loss:
  - 2.0 dB Max. (1.0 to 2.0 GHz) - Measured 1.69 dB
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.00 dB
  - 5.0 dB Max. (18.0 to 20.0 GHz) - Measured 3.63 dB
- Insertion Loss Flatness (Ref Line of Best Fit):
  - ±1 dB Max. (1.0 to 20.0 GHz) - Measured ±0.7 dB
  - ±1 dB Max. (1.0 to 18.0 GHz) - Measured ±0.9 dB
  - ±1 dB Max. (2.0 to 18.0 GHz) - Measured ±0.7 dB
- VSWR Input:
  - 2.6:1 Max. (1.0 to 2.0 GHz) - Measured 2.5:1
  - 2.1:1 Max. (2.0 to 8.0 GHz) - Measured 2.04:1
  - 2.0:1 Max. (8.0 to 18.0 GHz) - Measured 1.99:1
  - 2.0:1 Typ. (18.0 to 20.0 GHz) - Measured 1.9:1
- VSWR Output:
  - 1.5:1 Max. (1.0 to 2.0 GHz) - Measured 1.24:1
  - 1.7:1 Max. (2.0 to 8.0 GHz) - Measured 1.65:1
  - 1.8:1 Max. (8.0 to 18.0 GHz) - Measured 1.7:1
  - 2.0:1 Max. (18.0 to 20.0 GHz) - Measured 1.76:1
- Isolation:
  - 10 dB Typ. (1.0 to 2.0 GHz) - Measured 11.21 dB
  - 20 dB Typ. (2.0 to 8.0 GHz)
  - 20 dB Typ. (8.0 to 18.0 GHz)
  - 15 dB Typ. (18.0 to 20.0 GHz)
- Amplitude Balance:
  - ±0.5 dB Max. (1.0 to 2.0 GHz) - Measured ±0.31 dB
  - ±0.3 dB Max. (2.0 to 8.0 GHz) - Measured ±0.17 dB
  - ±0.5 dB Max. (8.0 to 18.0 GHz) - Measured ±0.42 dB
  - ±1.2 dB Max. (18.0 to 20.0 GHz) - Measured ±0.55 dB
Phase Balance:
- 3° Max. (1.0 to 2.0 GHz) - Measured 1.24°
- 4° Max. (2.0 to 8.0 GHz) - Measured 3.76°
- 10° Max. (8.0 to 18.0 GHz) - Measured 9.11°
- 15° Typ. (18.0 to 20.0 GHz)

PMI Website Link:
https://www.pmi-rf.com/product-details/apd-8-1g20g-292ff

14.0 PMI Model No. APD-8-0R518G-292FF, 0.5 to 18.0 GHz, 8-Way Power Divider

PMI Model No. APD-8-0R518G-292FF is a 8-Way Power Divider that operates over the 0.5 to 18.0 GHz frequency range. It has a maximum insertion loss of 3.2 dB and a typical isolation of 20 dB. The unit is supplied in a housing measuring 5.00" x 3.70" x 0.43" and has 2.92 mm female connectors.

- Frequency Range: 0.5 to 18.0 GHz
- Insertion Loss:
  - 2.0 dB Max. (0.5 to 1.0 GHz) - Measured 1.77 dB
  - 2.0 dB Max. (1.0 to 2.0 GHz) - Measured 1.69 dB
  - 2.0 dB Max. (2.0 to 8.0 GHz) - Measured 1.85 dB
  - 3.2 dB Max. (8.0 to 18.0 GHz) - Measured 3.00 dB
- Insertion Loss Flatness (Ref Line of Best Fit):
  - ±1 dB Max. (0.5 to 18.0 GHz) - Measured ±0.79 dB
  - ±1 dB Max. (1.0 to 18.0 GHz) - Measured ±0.79 dB
  - ±1 dB Max. (2.0 to 18.0 GHz) - Measured ±0.76 dB
- VSWR Input:
  - 2.5:1 Typ. (0.5 to 1.0 GHz) - Measured 2.41:1
  - 2.6:1 Max. (1.0 to 2.0 GHz) - Measured 2.5:1
  - 2.1:1 Max. (2.0 to 8.0 GHz) - Measured 2.04:1
  - 2.0:1 Max. (8.0 to 18.0 GHz) - Measured 1.99:1
- VSWR Output:
  - 1.5:1 Max. (0.5 to 1.0 GHz) - Measured 1.37:1
  - 1.5:1 Max. (1.0 to 2.0 GHz) - Measured 1.24:1
  - 1.7:1 Max. (2.0 to 8.0 GHz) - Measured 1.65:1
  - 1.8:1 Max. (8.0 to 18.0 GHz) - Measured 1.7:1
- Isolation:
  - 10 dB Typ. (0.5 to 1.0 GHz)
  - 10 dB Typ. (1.0 to 2.0 GHz) - Measured 11.21 dB
  - 20 dB Typ. (2.0 to 8.0 GHz)
  - 20 dB Typ. (8.0 to 18.0 GHz)
- Amplitude Balance:
  - ±0.5 dB Max. (0.5 to 1.0 GHz) - Measured ±0.31 dB
  - ±0.5 dB Max. (1.0 to 2.0 GHz) - Measured ±0.31 dB
  - ±0.3 dB Max. (2.0 to 8.0 GHz) - Measured ±0.17 dB
  - ±0.5 dB Max. (8.0 to 18.0 GHz) - Measured ±0.42 dB
- Phase Balance:
  - 5° Max. (0.5 to 1.0 GHz) - Measured 4.43°
  - 3° Max. (1.0 to 2.0 GHz) - Measured 1.24°
  - 4° Max. (2.0 to 8.0 GHz) - Measured 3.76°
  - 10° Max. (8.0 to 18.0 GHz) - Measured 9.11°
- Average Power: 25 W (Into 1.2:1 Load VSWR)
15.0 PMI Model No. P2T-100M52G-100-T, 0.1 to 52.0 GHz, SP2T Absorptive Switch

PMI Model No. P2T-100M52G-100-T is a 0.1 to 52.0 GHz, Single Pole, Two Throw, Absorptive Switch. It has a typical insertion loss of 6.0 dB and a typical isolation of 100 dB. The housing is measured at 1.00" x 0.75" x 0.40" and has 2.4 mm female connectors.

- Frequency Range: 0.1 to 52.0 GHz
- Insertion Loss:
  - 5.0 dB Typ. (0.1 to 18.0 GHz) - Measured 3.02 dB
  - 6.0 dB Typ. (18.0 to 40.0 GHz) - Measured 5.72 dB
  - 9.0 dB Typ. (40.0 to 52.0 GHz) - Measured 8.25 dB
- VSWR:
  - 2.2:1 Typ. (0.1 to 18.0 GHz)
  - 2.5:1 Typ. (18.0 to 40.0 GHz) - Measured 2.45:1
  - 3.0:1 Typ. (40.0 to 52.0 GHz) - Measured 2.63:1
- Isolation:
  - 70 dB Typ. (0.1 to 1.0 GHz) - Measured 97.51 dB
  - 100 dB Typ. (1.0 to 18.0 GHz)
  - 100 dB Typ. (18.0 to 40.0 GHz)
  - 80 dB Typ. (40.0 to 52.0 GHz)
- Video Transients: 800 mV Typ.
- Amplitude Balance:
  - 0.5 dB Max. (0.1 to 18.0 GHz) - Measured 0.49 dB
  - 0.8 dB Max. (18.0 to 40.0 GHz) - Measured 0.59 dB
  - 1.3 dB Max. (40.0 to 52.0 GHz) - Measured 1.25 dB
- Phase Balance:
  - 5° Max. (0.1 to 18.0 GHz) - Measured 2.69°
  - 10° Max. (18.0 to 40.0 GHz) - Measured 5.65°
  - 10° Max. (40.0 to 52.0 GHz) - Measured 8.28°
- Input Power: 20 dBm CW Max.
- Switching Speed: 50 ns Max. - Measured 4.8 ns Rise Time, 3.6 ns Fall Time, 33.4 ns Speed On, 26.0 ns Speed Off
- Control Signal:
  - TTL Logic "0" = J1-J2 On
  - TTL Logic "1" = J1-J3 On
- DC Voltage:
  - +5 V @ 100 mA Max. - Measured 90 mA
  - -5 V @ 100 mA Max. - Measured 80 mA

16.0 PMI Model No. P2T-100M56G-100-T, 0.1 to 56.0 GHz, SP2T Absorptive Switch
PMI Model No. P2T-100M56G-100-T is a 0.1 to 56.0 GHz, Single Pole, Two Throw, Absorptive Switch. It has a maximum insertion loss of 12.0 dB and a typical isolation of 80 dB. It has 2.4 mm female connectors in a housing measured at 1.00" x 0.75" x 0.40".

- **Frequency Range:** 0.1 to 56.0 GHz
- **Insertion Loss:**
  - 5.0 dB Max. (0.1 to 18.0 GHz) - Measured 3.02 dB
  - 6.0 dB Max. (18.0 to 40.0 GHz) - Measured 5.72 dB
  - 9.0 dB Max. (40.0 to 52.0 GHz) - Measured 8.25 dB
  - 12.0 dB Typ. (52.0 to 56.0 GHz)
- **VSWR:**
  - 2.2:1 Typ. (0.1 to 18.0 GHz)
  - 2.5:1 Typ. (18.0 to 40.0 GHz) - Measured 2.45:1
  - 3.0:1 Typ. (40.0 to 52.0 GHz) - Measured 2.63:1
  - 3.0:1 Typ. (52.0 to 56.0 GHz) - Measured 2.09:1
- **Isolation:**
  - 70 dB Typ. (0.1 to 1.0 GHz) - Measured 97.93 dB
  - 100 dB Typ. (1.0 to 18.0 GHz)
  - 80 dB Typ. (18.0 to 40.0 GHz)
  - 80 dB Typ. (40.0 to 52.0 GHz)
  - 80 dB Typ. (52.0 to 56.0 GHz)
- **Input Power:** 20 dBm CW Max.
- **Video Transients:** 800 mV Typ.
- **Amplitude Balance:**
  - 0.5 dB Max. (0.1 to 18.0 GHz) - Measured 0.49 dB
  - 0.8 dB Max. (18.0 to 40.0 GHz) - Measured 0.59 dB
  - 1.3 dB Max. (40.0 to 52.0 GHz) - Measured 1.25 dB
  - 1.3 dB Max. (52.0 to 56.0 GHz) - Measured 0.64 dB
- **Phase Balance:**
  - 5° Max. (0.1 to 18.0 GHz) - Measured 2.69°
  - 10° Max. (18.0 to 40.0 GHz) - Measured 5.65°
  - 10° Max. (40.0 to 52.0 GHz) - Measured 8.28°
  - 15° Max. (52.0 to 56.0 GHz) - Measured 10.84°
- **Switching Speed:** 50 ns Max. - Measured 4.8 ns Rise Time, 3.6 ns Fall Time, 33.4 ns Speed On, 26.0 ns Speed Off
- **Control Signal:**
  - TTL Logic "0" = J1-J2 On
  - TTL Logic "1" = J1-J3 On
- **DC Voltage:**
  - +5 V @ 100 mA Max. - Measured 90 mA
  - -5 V @ 100 mA Max. - Measured 80 mA

PMI Website Link,
https://www.pmi-rf.com/product-details/p2t-100m56g-100-t

17.0 PMI Model No. P4T-100M50G-100-T-RD, 0.1 to 50.0 GHz, SP4T Absorptive Switch
PMI Model No. P4T-100M50G-100-T-RD is a 0.1 to 50.0 GHz, Single Pole, Four Throw, Absorptive Switch. It has a maximum insertion loss of 10.0 dB and a minimum isolation of 70 dB. It has 2.4 mm female connectors in a housing measured at 1.25" x 1.25" x 0.40".

- **Frequency Range:** 0.1 to 50.0 GHz
- **Insertion Loss:**
  - 5.0 dB Max. (0.1 to 18.0 GHz) - Measured 2.94 dB
  - 7.0 dB Max. (18.0 to 40.0 GHz) - Measured 5.59 dB
  - 10.0 dB Max. (40.0 to 50.0 GHz) - Measured 9.29 dB
- **VSWR & Input/Output and Termination:**
  - 2.0:1 Typ. (0.1 to 16.0 GHz)
  - 2.5:1 Typ. (16.0 to 40.0 GHz)
  - 2.5:1 Typ. (40.0 to 50.0 GHz)
- **Isolation:**
  - 100 dB Min. (0.1 to 1.0 GHz) - Measured 105.85 dB
  - 90 dB Min. (1.0 to 18.0 GHz) - Measured 106.29 dB
  - 70 dB Min. (18.0 to 40.0 GHz) - Measured 74.42 dB
  - 70 dB Min. (40.0 to 50.0 GHz) - Measured 76.88 dB
- **Input Power:** +20 dBm CW Max.
- **Switching Speed:** 50 ns Max. - Measured 8.25 ns Rise Time, 4.32 ns Fall Time, 35.95 ns Speed On, 29.66 ns Speed Off
- **Video Transients:** 1 V Peak to Peak Typ.
- **Amplitude Balance:**
  - ±0.5 dB Max. (0.1 to 18.0 GHz) - Measured ±0.24 dB
  - ±1.0 dB Max. (18.0 to 40.0 GHz) - Measured ±0.70 dB
  - ±1.2 dB Max. (40.0 to 50.0 GHz) - Measured ±1.05 dB
- **Phase Balance:**
  - ±8° Typ. (0.1 to 18.0 GHz)
  - ±15° Typ. (18.0 to 40.0 GHz)
  - ±20° Typ. (40.0 to 50.0 GHz)
- **DC Voltage:**
  - +5 V @ 200 mA Max. - Measured 158 mA
  - -5 V @ 200 mA Max. - Measured 128 mA

**PMI Website Link,**
[https://www.pmi-rf.com/product-details/p4t-100m50g-100-t-rd](https://www.pmi-rf.com/product-details/p4t-100m50g-100-t-rd)

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18.0 PMI Model No. P4T-100M53G-100-T-RD, 0.1 to 53.0 GHz, SP4T Absorptive Switch

PMI Model No. P4T-100M53G-100-T-RD is a 0.1 to 53.0 GHz, Single Pole, Four Throw, Absorptive Switch. It has a maximum insertion loss of 15.0 dB and a minimum isolation of 70 dB. It has 2.4 mm female connectors in a housing measured at 1.25" x 1.25" x 0.40".

- **Frequency Range:** 0.1 to 53.0 GHz
- **Insertion Loss:**
  - 5.0 dB Max. (0.1 to 18.0 GHz) - Measured 2.94 dB
  - 7.0 dB Max. (18.0 to 40.0 GHz) - Measured 5.59 dB
  - 10.0 dB Max. (40.0 to 50.0 GHz) - Measured 9.29 dB
  - 15.0 dB Max. (50.0 to 53.0 GHz)
- **VSWR & Input/Output and Termination:**
PMI Website Link,  
https://www.pmi-rf.com/product-details/p4t-100m53g-100-t-rd

19.0 PMI Model No. PEC-100M20D1G-20LM-SFF, 0.1 to 20.1 GHz, Limiting Amplifier

PMI Model No. PEC-100M20D1G-20LM-SFF is a 0.1 to 20.1 GHz, Limiting Amplifier. It has a maximum noise figure of 9 dB and a maximum VSWR of 2.2:1. It has 2.92 mm male connectors in a housing measured at 1.91" x 0.70" x 0.36".

- Frequency Range: 0.1 to 20.1 GHz
- RF Input Power Range (Limiting): -12 to +16 dBm
- Max Input Power (Survival): +22 dBm
- Harmonics:
  - 2nd: -10 dBc Max.
  - 3rd: -8 dBc Max.
  - (Within Limiting Range)
- Noise Figure:
  - <6 dB Above 1.0 GHz - Measured 4.98 dB
  - <9 dB Below 1.0 GHz - Measured 6.85 dB
- Output Power: +19 dBm Min., +24 dBm Max. - Measured 19.75 dBm Min., 23.69 dBm Max.
- Output Power Flatness: ±2 dBm Typ., ±2.5 dBm Max. - Measured ±1.97 dBm
- VSWR In/Out: 2.2:1 Max. - Measured 1.72:1/2.18:1
- DC Power: +12 V @ 500 mA Max. (No RF Input Signal) - Measured 448 mA

PMI Website Link,  
https://www.pmi-rf.com/product-details/pec-100m20d1g-20lm-sff
PMI Model No. PEC-100M16G-17LM-SFF is a 0.1 to 16.0 GHz, Limiting Amplifier. It has a maximum noise figure of 9 dB and a maximum VSWR of 2.2:1. It is supplied in a housing measured at 1.91" x 0.70" x 0.36".

- Frequency Range: 0.1 to 16.0 GHz
- RF Input Power Range (Limiting): -12 to +16 dBm
- Max Input Power (Survival): +22 dBm
- Harmonics:
  - 2nd: -10 dBc Max.
  - 3rd: -8 dBc Max.
  - (Within Limiting Range)
- Noise Figure:
  - <6 dB Above 1.0 GHz - Measured 4.8 dB
  - <9 dB Below 1.0 GHz - Measured 6.64 dB
- Output Power: +16 dBm Min., +21 dBm Max. - Measured 16.26 dBm Min., 20.2 dBm Max.
- Output Power Flatness: ±2 dBm Max. - Measured ±1.97 dBm
- VSWR: 2.2:1 Max. - Measured 1.63:1/1.67:1
- DC Power: +12 V @ 500 mA Max. (No RF Input Signal) - Measured 452 mA

PMI Website Link,
https://www.pmi-rf.com/product-details/pec-100m16g-17lm-sff

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