Planar Monolithics Industries, Inc.

0.5 to 18.0GHz, 60dB, Voltage Variable Analog Controlled, Solid State Attenuator

TECHNICAL Datasheet

PVA-500M18G-60-SFF

PMI Model No. PVA-500M18G-60-SFF is a broadband voltage variable attenuator / modulator designed to operate over the full 0.5 to 18.0GHz frequency range with a rise and fall time of 1.8usec typical and 60dB of attenuation range.

Features
- 0.5 to 18.0 GHz
- 5.2dB Max Insertion Loss
- 10dB/Volt Control
- 60dB Dynamic Range
- VSWR 2.2:1 Max.
- 3us Max.

Applications
- EW Systems
- Radars
- UAVs & UGVs
- Communications
- Test Equipment
- Laboratories

Electrical Specifications
- Frequency Range: 0.5GHz to 18.0GHz
- Insertion Loss:
  - 4.5dB Maximum (0.5 to 12.0GHz)
  - 5.2dB Maximum (12 to 18.0GHz)
- 0-30dB ± 2.5dB Maximum
- 30-40 dB ± 3.5dB Maximum
- 40-50 dB ± 4.5dB Maximum
- 50-60dB ± 5.5dB Maximum
- 0-10dB = ± 2.0dB Maximum
- 10-20dB = ± 1.0dB Maximum
- 20-40dB = ± 1.5dB Maximum
- 40-60dB = ± 2.0dB Maximum
- Rise and Fall Time: 3usec Maximum
- VSWR: 2.2:1 Maximum
- RF Power Ratings:
  - +20dBm CW Maximum
  - +10dBm (0.3GHz or below)
- Survival:
  - +30dBm CW Maximum
  - +27dBm (0.3GHz or below)
- Control:
  - 10dB / Volt Analog Controlled
- Power Supply:
  - +12VDC @ 250mA Maximum, 210mA Typ.
  - -12VDC @ 50mA Maximum, 30mA Typ.
- Connectors:
  - SMA(F) - RF In/Out
  - Solder Pins - Control
- Size: 2.00" x 1.81" x 0.50"

Environmental Ratings
- Temperature: -55°C to +95 °C Operating
- -65 °C to +125 °C Non-Operating

West Coast Operation:
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 USA
Tel: 916-542-1401 Fax: 916-265-2597

ISO9001 REGISTERED
Web: www.pmi-rf.com Email: sales@pmi-rf.com

East Coast Operation:
7311-F Grove Road
Frederick, MD 21704 USA
Tel: 301-662-5019 Fax: 301-662-1731
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ATTENUATION VS FREQUENCY

FREQUENCY (GHz)

ATTENUATION (dB)

Insertion Loss & Return Loss

Agilent Technologies
Thu Dec 04 05:41 2013

DELAY 0 TO 60dB
1.72us

Agilent Technologies
Thu Dec 04 05:41 2013

DELAY 60 TO 0dB
855.5ns
TECHNICAL DATASHEET

PVA-500M18G-60-SFF

MECHANICAL OUTLINE

0.5 to 18.0GHz, 60dB, Voltage Variable
Analog Controlled, Solid State Attenuator