



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

Variable Gain Amplifier

PMI Model No. PTB-40-0R118-6R5-21-120VAC-1U-SFF

PMI Model number PTB-40-0R118-6R5-21-120VAC-1U-SFF is an integrated microwave assembly that provides high gain and operates from 100MHz to 18.0GHz. This unit features integrated digitally controlled attenuators with ranges up to 60dB. The attenuation can be controlled via the external optical encoded knob or via RS-232 and Ethernet. The amount of selected attenuation is displayed on the front panel LCD screen.



Standard Features:

- 6 foot power cord supplied
- On / Off Power Switch with LED indicator
- Attenuation level displayed on the LCD display
- Attenuation control via front panel optical encoded knob or via RS-232 and Ethernet
- Real-Time attenuation control

Available Options:

- Ultra-Fine 0.25dB/Step Attenuation Resolution
- Internal High Speed Modulator
- Other Gain Levels from 0db to 80dB
- Frequency Ranges from 10MHz to 40GHz
- Higher Output power levels up to +30dBm
- 220VAC (European Compatible) Voltage Supplies

Specifications:

Frequency Range	0.1 to 18.0GHz
Gain	40dB minimum
Gain Flatness	±3.5dB (No Attenuation)
Noise Figure	6.5dB typical
OP1dB	20dBm min.
Attenuation Range	0 to 60dB (1dB Steps)
VSWR In/Out	2.0:1 max.
AC Voltage Supply	120VAC, 50/60Hz

Environmental Ratings:

Temperature:	-55°C to +85 °C Operating -55°C to +100 °C Non-Operating
Humidity:	MIL-STD-202F, Method 103B Cond. B
Shock:	MIL-STD-202F, Method 213B Cond. B
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A



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