

American Microwave Corporation Pin Diode Attenuator

(RF) AGH-2550D

Voltage Controlled Linearized Attenuator/Modulator That Operates Over a Greater Than Octave Bandwidth and is Non-Reflective at all Attenuation Levels.

Specifications:

- Frequency Range 2.5 - 5.0 GHz
1.9 - 5.6 GHz Also Available
- Insertion Loss 2.5 - 5.0 GHz: 2.0 dB Maximum
1.9 - 5.6 GHz: 2.1 dB Maximum
- VSWR 2.5 - 5.0 GHz: 1.6:1 Maximum
1.9 - 5.6 GHz: 2.1:1 Maximum
2.5 - 5.0 GHz: @ 10 dB: ± 0.3 dB Maximum
@ 20 dB: ± 0.8 dB Maximum
@ 40 dB: ± 1.5 dB Maximum
@ 60 dB: ± 1.6 dB Maximum
- Flatness 1.9 - 5.6 GHz: @ 10 dB: ± 0.5 dB Maximum
@ 20 dB: ± 1.4 dB Maximum
@ 40 dB: ± 3.0 dB Maximum
@ 60 dB: ± 3.5 dB Maximum
- Attenuation Range 60 dB
0 - 30 dB: ± 0.5 dB
- Deviation From Linearity 30 - 50 dB: ± 1.0 dB
50 - 60 dB: ± 1.5 dB
- Monotonicity Guaranteed
- Attenuation Change With Temperature ± 0.025 dB/ $^{\circ}$ C Maximum
- Power Handling (Operating) +20 dBm
- Rise and Fall Times Rise Time: 1.5 usec Maximum
Fall Time: 50 ns Maximum
Range: 0 to 6 Volts:
 ± 15 Volts Maximum
- Control Characteristics Transfer Function: 10 dB/Volt
Input Impedance: 10K Ohms
- Power Supply Requirements +12V $\pm 5\%$ @ 100 mA
- 12V $\pm 5\%$ @ 20 mA
- Size 1.80" X 1.67" X 0.50"
- Weight Approx. 2 Oz.

Available Options:

- 001 Two SMA Male RF Connectors
- 002 One SMA Male and One SMA Female RF Connector
- 003 5 dB/Volt Sensitivity
- 004 0 - 30 dB Range
- 005 ± 15 Volt Power Supply
- 006 SMA-F Control Connector
- 008 SMC-M Control Connector
- 102 ± 18 Volt Power Supply
- 200 Removable SMA Female RF Connector

Environmental Ratings:

Our standard environmental ratings are as follows, for specific requirements please contact us...

Temperature:	-54 °C to +110 °C Operating
	-65 °C to +125 °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

