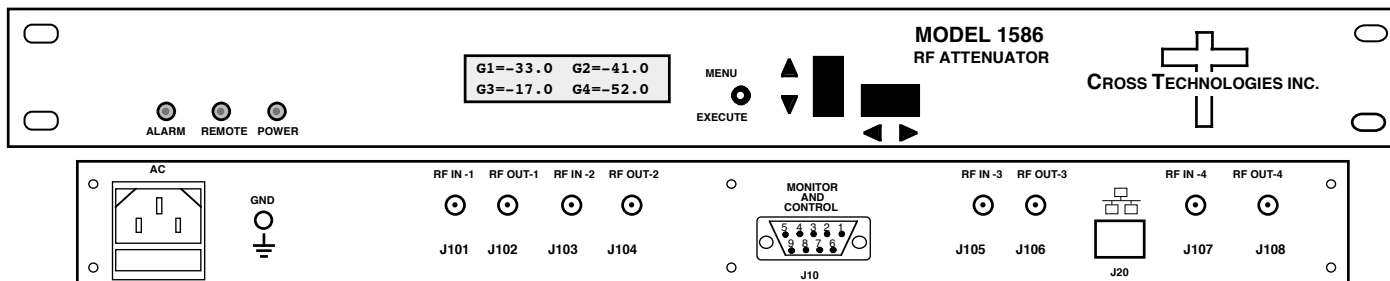


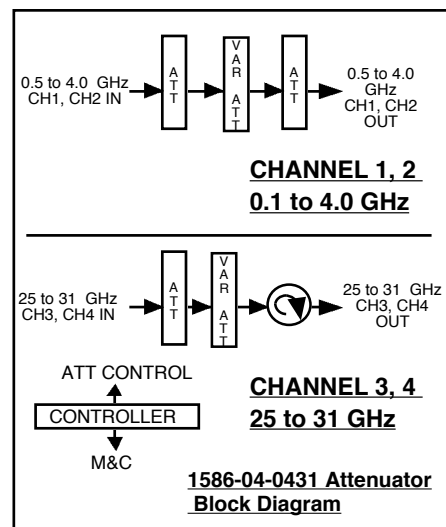
1586-04-0431 Programmable Attenuator, 0.5 to 4 GHz and 25 to 31 GHz

The 1586-04-0431 Programmable Attenuator contains two 0.5 to 4 GHz and two 25 to 31 GHz Digital PIN Attenuators and Local/Remote control circuitry to independently adjust each attenuator. Multi-function push button switches select the attenuation locally. The attenuator values are stored in nonvolatile memory so these values remain when power is cycled off and on. Front panel LEDs provide indication of DC power (green), Alarm (red), and Remote (yellow). Each Attenuator provides an attenuation range of 60 dB from **10 to 70 dB** attenuation. Remote operation also controls each attenuator, provides status monitoring of attenuator settings, power supply, and summary alarms. Attenuator settings appear on the LCD display. An **“Offset” command allows adding an external attenuator to shift the attenuation range by the amount of the attenuator with the total attenuation shown on the display and via the M&C.** Connectors are SMA, female (CH1, CH2) or 2.92 mm (CH3, CH4) for inputs and outputs and DB9 female for the RS422 remote control (**Ethernet Optional**). It is powered by a 100-240 ±10% VAC power supply (**Option -R for redundant supplies**), and in a 1 3/4” X 19” X 16” rack mount chassis.



1586-04-0431 Front and Rear Panels (SHOWN WITH OPTION W8)

EQUIPMENT SPECIFICATIONS*		
Input Characteristics	CH 1,2	CH 3,4
Impedance/Return Loss	50Ω/14 dB	50Ω/14 dB
Frequency	0.5-4.0 GHz	25.0-31.0 GHz
Input No Damage	+20 dBm	+20 dBm
Input Level range	0 to -20 dBm	0 to -20 dBm
Input 1 dB comp, min att	+10 dBm	+10 dBm
Output Characteristics		
Impedance/Return Loss	50 Ω /14 dB	50 Ω /14 dB
Frequency (GHz)	0.5-4.0 GHz	25.0-31.0 GHz
Output Level Range	-20 to -80 dBm	-20 to -80 dBm
Channel Characteristics		
Attenuation, min. at Fc	10 ±1 dB	10 ±1 dB
Att. range, 0.5±0.5 dB steps	10 to 70 dB	10 to 70 dB
Freq. Resp. @att range		
10 to 30 dB	±1.5 dB	±1.5 dB
31 to 50 dB	±2.0 dB	±2.0 dB
51 to 70 dB	±2.5 dB	±2.5 dB
Att Accuracy @att range, Fc		
10 to 30 dB	±1.0 dB	±1.0 dB
31 to 50 dB	±1.0 dB	±1.0 dB
51 to 70 dB	±1.5 dB	±1.5 dB



Available Options

R = Redundant AC Power Supply

Remote M&C Ethernet Options

- W8 - Ethernet w/web browser Interface
- W18 - Ethernet w/SNMP (and MIB) Interface
- W28 - Ethernet w/direct TCP/IP Interface
- W8W28 - Ethernet W8 +W28**
- W828 - Ethernet W8 +W18 +W28**

Contact Cross for other options

Other

Temp Coefficient ±0.025 dB/Degree C, max.

Controls, Indicators

Gain Direct readout LCD; pushbutton switches or remote
Offset Shifts attenuation range by the amount of ext attenuator
 Power; Alarm; Remote Green LED; Red LED; Yellow LED
 Remote RS232C/RS485/422, 9600 baud (Ethernet Optional)

Other

CH 1,2; CH 3,4 Con. SMA (female); 2.92 mm (female), 50Ω
 Alarm Connector DB9 - NO or NC contact closure on Alarm
 Size 19 inch standard chassis 1.75” high X 16” deep
 Power 100-240 ± 10% VAC, 47 - 63 Hz, 25 watts maximum

*+10 to +40 degrees C; Specifications subject to change without notice