Programmable Attenuators

AEROFLEX WEINSCHEL

Model 4202
Digital Attenuator
with Built-in TTL Driver

0.4 to 6 GHz

NEW

RoHS

Features

- **Ideal for Automated Test Equipment (ATE), WiMAX, 3G Fading Simulators, Engineering/Production Test Lab environments**
- **Excellent Repeatability & Performance**
- **Custom Configurations Available Upon Request**
- **Ruggedized Construction**

Description

Aeroflex / Weinschel's new line of MMIC Digital Attenuator operates over the 0.4 to 6 GHz frequency range and provides an attenuation range from 0 to 63 in 1 dB increments.

Specifications

NOMINAL IMPEDANCE:	50 Ω
FREQUENCY RANGE:	0.4 to 6.0 GHz
ATTENUATION RANGE/STEPS:	0-63 in 1 dB steps
ATTENUATION INCREMENTS:	1, 2, 4, 8, 16, 32 dB
ATTENUATION ACCURACY:	± 1 dB or 4%
INSERTION LOSS:	7.0 dB maximum
MAXIMUM SWR:	2.0:1
POWER RATING:	20 dBm (100 mW) maximum
SWITCHING SPEED:	300 nsec maximum
CONTROL LOGIC:	TTL
OPERATING VOLTAGE:	+5 V @ 20 mA
TEMPERATURE RANGE:	0°C to + 70°C

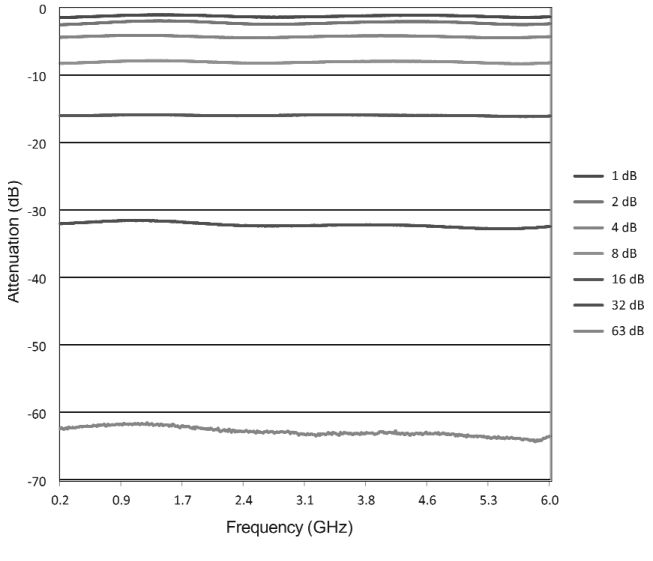
TEST DATA: Test data can be provided at additional cost.

CONNECTORS: SMA female connector - mates nondestructively with other SMA connector per MIL-C-39012, 3.5mm and other 2.92mm connector.

CONTROL CONNECTOR: AMP-Latch 10 pin ribbon cable connector mates with AMP P/N 746285-1 (supplied with each unit)

CONTROL CONFIGURATION: Units are supplied with a built-in TTL interface. Each unit is supplied with a mating 10 pin connector (Amp 746285-1). Refer to Physical Dimensions for mating connector pin/wiring details. Two wires are specified for supply voltage and ground. The remaining wires will accept TTL control signals to activate or de-activate a particular attenuation cell. A TTL high will energize a cell to the high attenuation state, whereas a TTL low will maintain a cell in its zero attenuation state.

WEIGHT: 83 g (2.92 oz)



Attenuation Performace Plot

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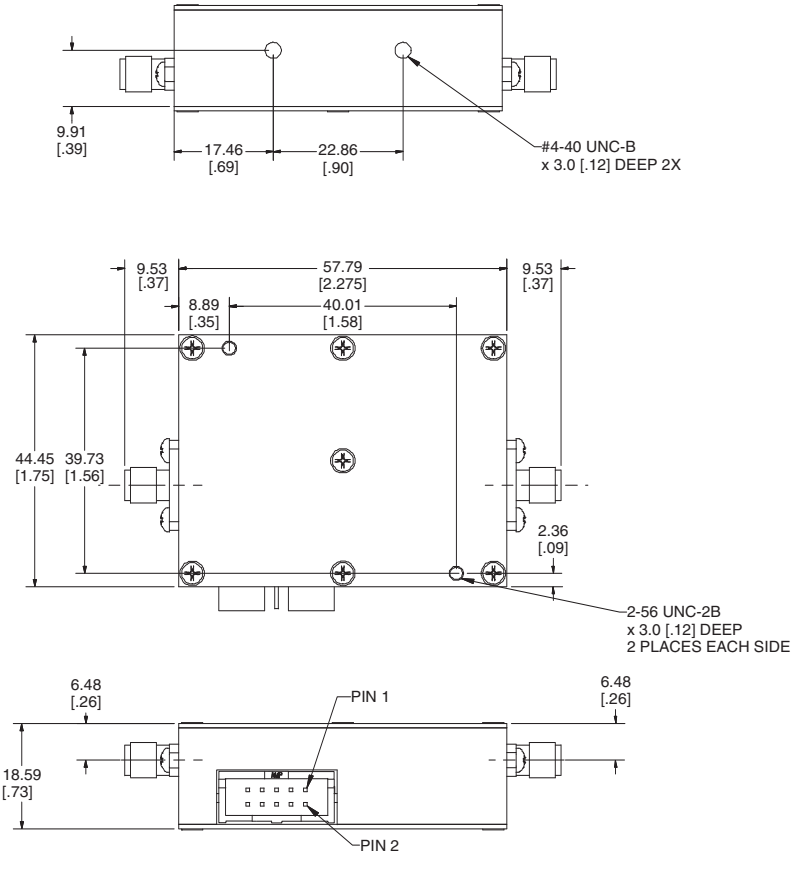
Revision Date: 9/30/2012

PHYSICAL DIMENSIONS:



Control Connector
J3 Pin Locations:

TTL Conn PIN No. (J3)	Designation
1	1.0
2	2.0
3	4.0
4	8.0
5	16.0
6	32.0
7	NC
8	NC
9	+5V
10	COM

NC = Not Connected

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

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