

Programmable Attenuators



Model 4202-63 Digital Attenuator

0.4 to 6 GHz



SMA Connectors



Features

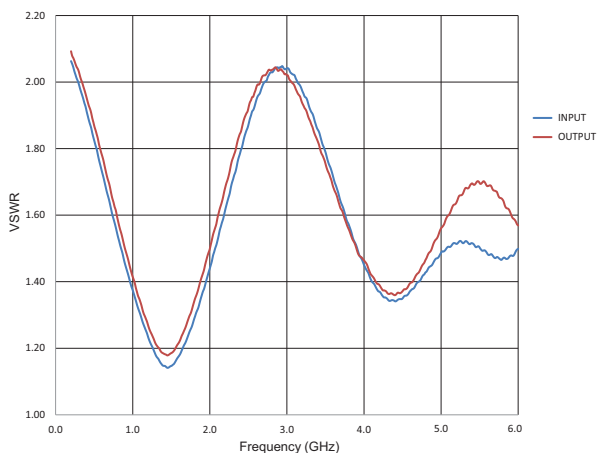
- /// Excellent Repeatability & Performance
- /// Custom Configurations Available Upon Request
- /// Ruggedized Construction

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 dB 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
SWR:	2:1 maximum



SWR Performance Plot

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

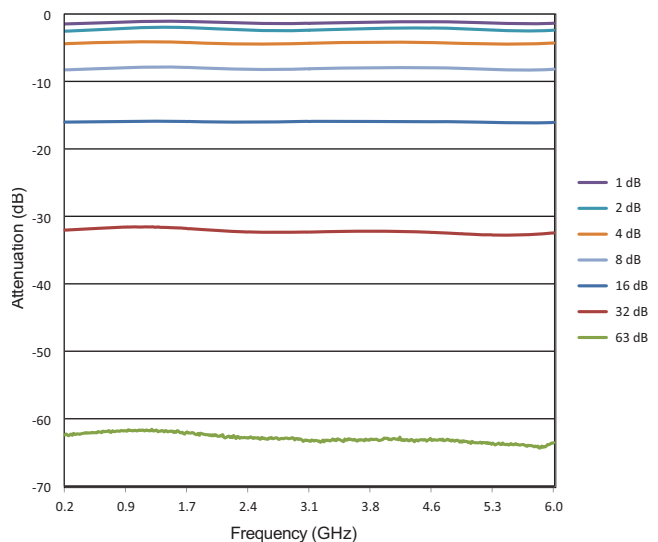
TEST DATA: Test data can be provided at additional cost.

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)

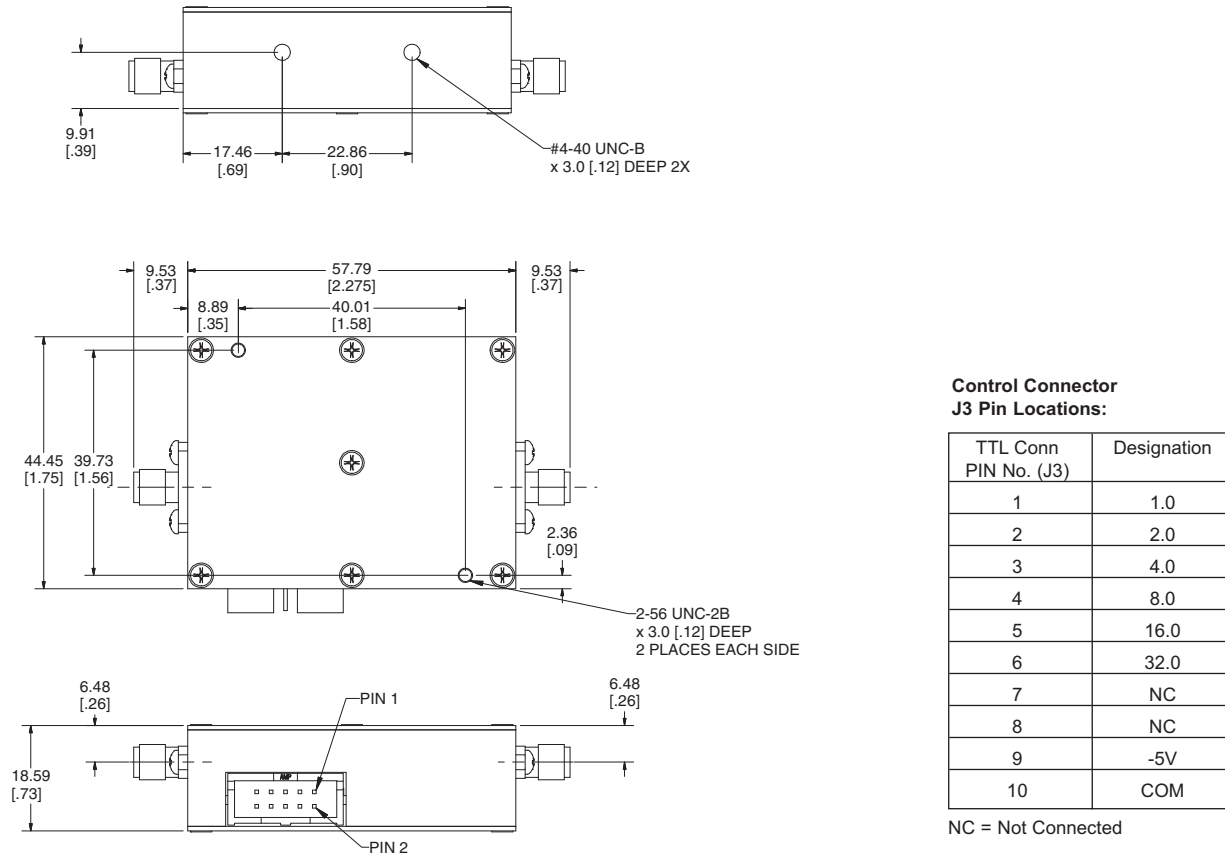
CONTROL CONFIGURATION: Units are supplied with a built-in TTL interface. Each unit is supplied with a mating 10 pin connector (Amp 746285-1). Refer to Physical Dimensions for mating connector pin/wiring details. Two wires are specified for supply voltage and ground. The remaining wires will accept TTL 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 Performance Plot

PHYSICAL DIMENSIONS:



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