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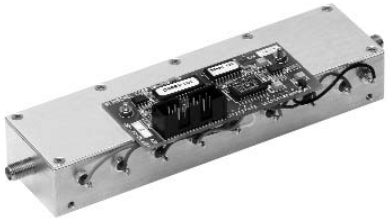
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Models 3406T & 3408T Programmable Attenuators with built-in Microprocessor-Based Driver

dc to 6.0 GHz 1 Watt

NEW

For Use with Weinschel 8210A Controller



Features

- **Higher Frequency range to 6 GHz.**
- **Wide Selection of Attenuation Ranges & Step Sizes**
  - 0 to 55 dB in 1 dB steps
  - 0 to 103 dB in 1 dB steps
  - 0 to 55.75 in 0.25 dB steps
- **High Quality Construction & Connectors**
- **Built-In TTL\CMOS Interface Driver Circuitry**
- **Special Configurations Available Upon Request**

Description

This line of intelligent programmable step attenuators with a built-in digital interface are designed to simplify the control and integration of these devices into subsystem and bench applications. This series of Programmable Step Attenuators is designed for use in automatic test equipment and OEM systems operating in the dc to 6 GHz frequency range. These models are available in many standard attenuation ranges and cell configurations. Each cell contains a double-pole, double-throw relay that provides a minimum loss or attenuated path for the RF signal.

Microstrip circuitry and special compensation techniques produce flat attenuation versus frequency characteristics. The microstrip construction, using thick-film circuit elements, ensures product uniformity. To minimize RF leakage, the 3400T Series Attenuators are provided with gold-plated contact areas and feedthrough filters at each control terminal.

Specifications

NOMINAL IMPEDANCE: 50 Ω
FREQUENCY RANGE: dc to 6.0 GHz

MAXIMUM SWR:

Frequency Range (GHz)	SWR
dc - 3	1.30
3 - 6	1.45

CELL CONFIGURATIONS:

Model Number	NO. Cells	Attenuation Range/Steps (dB)	Cell Increments (dB)
3406T-55	6	55/1	1, 2, 4, 8, 16, 24
3408T-55.75	8	55.75/0.25	0.25, 0.5, 1, 2, 4, 8, 16, 24
3408T-103	8	103/1	1, 2, 4, 8, 16, 24, 48*

*48 dB cell comprised of two 24 dB cells

INCREMENTAL ATTENUATION ACCURACY:

Frequency Range (GHz)	Accuracy
dc - 3	±0.3 dB or 2% whichever is greater
3 - 6	±0.4 dB or 3% whichever is greater

MAXIMUM INSERTION LOSS (dB):

Frequency Range (GHz)	3206-55	3408-55.75 3408-103
dc - 3	2.60	3.40
3 - 6	3.80	5.00

MONOTONICITY: dc to 6.0 GHz

POWER RATING: 1 watt average to 25°C ambient temperature, derated linearly to 0.25 watt @ 70°C. 50 watts peak (5 µsec pulse width; 1% duty cycle)

POWER COEFFICIENT: <0.005 dB/dB/watt

RATED SWITCH LIFE: 5 million cycles operations per cell @ 0 dBm

SWITCHING TIME: 6 msec. maximum at nominal rated voltage

RELEASE TIME: 5 msec maximum

SWITCHING SPEED: 5 Hz maximum per relay

OPERATING VOLTAGE: +12V (+13V maximum; +9V minimum)

OPERATING CURRENT: 17 mA typical per cell @ +12V

TEMPERATURE RANGE (Operating): -30°C to +70°C

TEST DATA: Test data is available at additional cost.

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Revision Date: 12/13/05

Specifications - Con't

DRIVER INTERFACE:

Parameter		Specification
V_{IL}	Low-level input V:	-0.5V min, 0.8V max
V_{IH}	High-level input V:	2.0V min, 5.25V max
I_{PU}	Pullup current:	50 µA min, 400 µA max
V_{IN}	Supply Voltage:	+12.0 to +15.0V
I_{IN}	Supply current: (digital section)	25 mA
I_{CELL}	Supply current:	16.6 mA @ 12V

CONNECTORS: SMA female connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

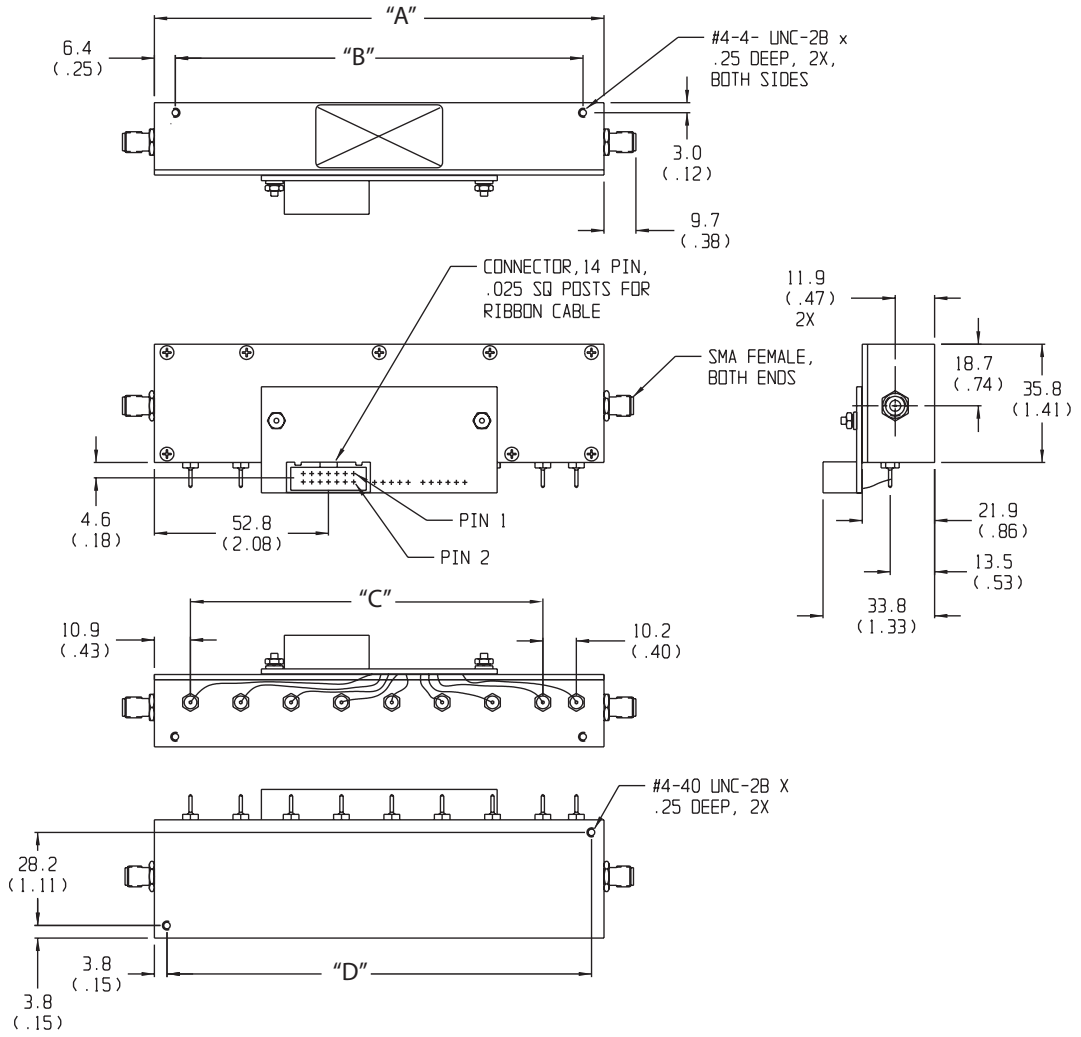
INTERFACE CONNECTOR: 14 pin .025 square post header on .1 center. Mates with Amp connector 746285-2 or equivalent.

CONSTRUCTION:

Housing:	Aluminum
Connectors:	Stainless steel body and beryllium copper contacts.
Control terminals:	Brass/Copper, Silver plated

WEIGHT (Typical): 3406T-X: 99 g (3.5 oz)
3408T-X: 135 g (4.8 oz)

PHYSICAL DIMENSIONS:



Model No.	No. Cells	A	B	C	D
3408T-X	8	136.1 (5.36)	123.4 (4.86)	7 EQ SPCS @ 15.20 (.60) = 106.7 (4.20)	128.5 (5.06)
3406T-X	6	105.7 (3.66)	93.0 (3.66)	5 EQ SPCS @ 15.20 (.60) =76.0 (3.00)	98.0 (3.86)

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

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