Weinschel CORPORATION

Model 17
Lab Standard Fixed Coaxial Attenuators

dc to 18.0 GHz
5 Watts

GPC-7 Connectors

Features

- **Precision Connectors** - GPC-7 Connectors per IEEE-STD-287.
- **Calibration** - A certificate of test supplied with each attenuator.
- **Hex Nut Connector** - Allows for use of a torque wrench to apply additional coupling torque for improved connector repeatability.
- **Designed to meet environmental requirements of MIL-A-3933.**

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)
1	± 0.50
2 - 9	± 0.30
10, 20	± 0.50
30, 40, 50	± 0.75
60	± 1.00

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.10
4 - 12.4	1.15
12.4 - 18	1.20

POWER RATING: 5 watts **average** to 25°C ambient temperature, derated linearly to 4 watts @ 45°C, 3 watts @ 65°C, and 2 watts @ 85 °C. 1 kilowatt peak (5 µsec pulse width; 0.25% duty cycle).

POWER COEFFICIENT: < 0.0015 dB/dB/watt

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

TEMPERATURE RANGE: -50°C to +85°C

CALIBRATION: Insertion loss and SWR data supplied at 0.05, 4, 8, 12 and 18 GHz. Other test data available at additional cost.

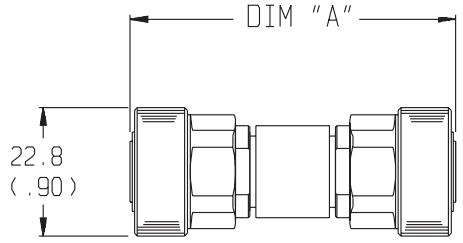
CONNECTORS: GPC-7 connectors mate with other connectors conforming to IEEE-STD-287. Coupling Torque: 14 ± 1 in/lbs. Recommended torque wrench Model 1915.

CONSTRUCTION: Brass Body (plated) and Stainless steel connectors; gold plated beryllium copper contacts.

WEIGHT:

dB VALUE	WEIGHT (Net)
1 - 10, 20, 30	100 g (3.5 oz)
40, 50, 60	140 g (4.5 oz)

PHYSICAL DIMENSIONS:



dB VALUE	DIM A
1-10, 20, 30	57.9 (2.28)
40, 50, 60	68.1 (2.68)

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

MODEL NUMBER DESCRIPTION:

Example:

17 - XX

Basic Model Number

Attenuation Value (dB)

CALIBRATED ATTENUATOR SET (AS-16): Model 17 is also available in a Calibrated Attenuator Set which includes six different attenuators (1, 3, 6, 10, 20, 30 dB). A Certificate of Calibration is provided within the case and the Calibration data is traceable to NIST. Refer to Calibrated Attenuator Sets data sheet for more information.

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