

15. Juni 2009



# MEDIUM POWER FIXED COAXIAL ATTENUATOR

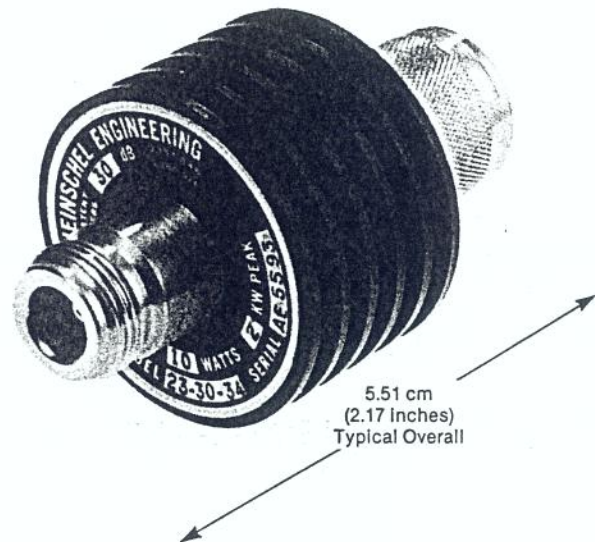
## 10 WATTS

### MODEL 23 DC TO 18 GHz

#### TYPE N CONNECTORS



Im Gewerbepark 11  
27619 Schiffdorf  
Tel. 04706/750100  
Fax 04706/750103



## FEATURES

**POWER CAPABILITY** — Average input power rating is 10 watts; peak power rating is 1 kW.

**WIDE TEMPERATURE RANGE** —  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . Full rated power to  $25^{\circ}\text{C}$ . Both models derated linearly to 0 watts at  $125^{\circ}\text{C}$ .

**UNIFORM PHASE CHARACTERISTICS** — Excellent unit-to-unit tracking and phase linearity with frequency.

**HIGH REPEATABILITY CONNECTORS** — Injection molded connector insulators maintain concentricity and provide stable interface dimensions to ensure good life and high repeatability of insertion loss.

**RUGGED CONSTRUCTION** — Designed to meet all environmental requirements of MIL-A-3933.

**STABILITY** — Low temperature and power coefficients. Weinschel film resistors are artificially aged to provide high stability under normal as well as extreme operating conditions.

# MEDIUM POWER FIXED COAXIAL ATTENUATOR

MODEL 23 

## SPECIFICATIONS

**NOMINAL IMPEDANCE:** 50 ohms.

**FREQUENCY RANGE:** DC to 18.0 GHz.

**STANDARD NOMINAL VALUES AND MAXIMUM DEVIATION FROM NOMINAL (including frequency sensitivity):**

Standard Nominal Values (dB)	Maximum Deviation (dB)
	Model 23
1, 2	± 0.5
3, 6	± 0.3
10	± 0.5
20	± 0.5
30	± 1.0
40	± 1.0
50	+ 1.35
60	± 1.50

**MAXIMUM VSWR:**

DC-4.0 GHz:	1.15
4.0-8.0 GHz:	1.20
8.0-12.4 GHz:	1.25
12.4-18.0 GHz:	1.40

**TEMPERATURE RANGE:** -55°C to +125°C.

**CALIBRATION FREQUENCIES:** DC, 4.0, 8.0, 12.0 and 18.0 GHz.

(Additional calibration frequencies can be supplied upon special request.)

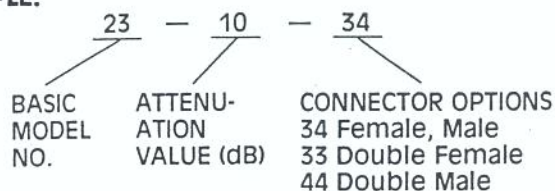
**CALIBRATION DATA:** Insertion loss data supplied on calibration form.

**CONNECTOR OPTIONS:**

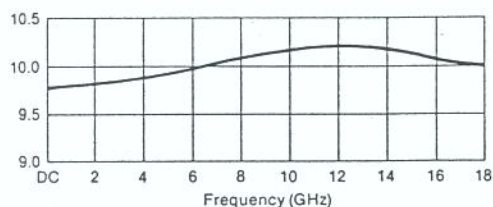
No. Designation	Type/Description
3	N, Female
4	N, Male

**MODEL DESCRIPTION:**

**EXAMPLE:**



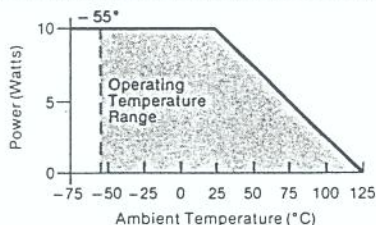
**TYPICAL FREQUENCY SENSITIVITY OF INSERTION LOSS**



**POWER RATING (mounted in a horizontal plane):**

10 watts average, 1.0 kW peak.  
 (Maximum rated average power to 25°C ambient temperature, derated linearly to 0 watts at 125°C.)

**POWER / TEMPERATURE DERATING CURVE:**



**POWER COEFFICIENT:**  $<0.001 \frac{\text{dB}}{\text{dB} \times \text{W}}$

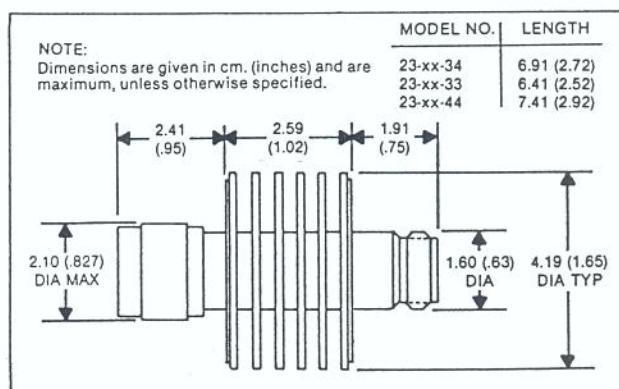
**TEMPERATURE COEFFICIENT:**  $<0.0001 \frac{\text{dB}}{\text{dB} \times ^\circ\text{C}}$

**CONSTRUCTION:** Black, finned aluminum body. Passivated stainless steel connectors. Beryllium copper female contact.

**WEIGHT:** Net 0.11 kg (4 oz.). Shipping 0.45 kg (1 lb.)

**PRICE:**

SEE PRICE LIST AT BACK OF CATALOG.



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