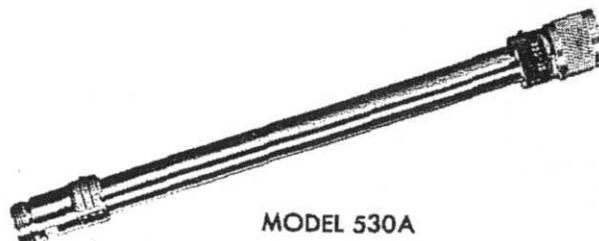


# MODEL 530A 0.4 to 12.4 GHz

## FIXED COAXIAL ATTENUATORS

### FEATURES

- **STABILITY**—The Model 530A is made with artificially aged film resistors to give maximum stability under peak pulse power and extreme temperature and humidity cycling and to comply with MIL-A-3933.
- **RUGGEDNESS**—Carefully designed internal supports result in meeting or exceeding the environmental (shock, vibration, humidity, etc.) specifications of MIL-A-3933.
- **STAINLESS STEEL CONNECTORS AND CONSTRUCTION**—Body and Type N connectors made with stainless steel to insure maximum life with minimum wear.



MODEL 530A

- **CALIBRATION**—Calibration at three frequencies over the band; data supplied on the permanently attached nameplate and on certificate.

### SPECIFICATIONS

NOMINAL IMPEDANCE: 50 ohms

FREQUENCY RANGE AND NOMINAL ATTENUATION VALUES:

Nominal Value (dB)	Frequency Range (GHz)	Maximum SWR	Maximum Insertion Loss Deviation			Power Rating	
			At 4 GHz (dB)	From 4 GHz	At 10 GHz (dB)	Average (W)	Peak ** (kW)
1	0.4-10	1.25	±0.1	At 1 GHz (dB)	+0.2 -0.1	5	10
2	0.5-10	1.25	±0.1	-0.2	+0.2 -0.1	5	10
3	0.6-10	1.25	±0.1	-0.2	+0.2 -0.1	5	10
4	1-10	1.25	±0.1	-0.3	+0.2 -0.1	4	8
5	1-10	1.25	±0.1	-0.4	+0.2 -0.1	3	6
6	1-10	1.25	±0.1	-0.4	+0.2 -0.1	3	6
7	1-10	1.30 (1 to 2 GHz) 1.25 (2 to 10 GHz)	±0.1	-0.8	+0.3 -0.1	2.5	5
8	1-10	1.30 (1 to 2 GHz) 1.25 (2 to 10 GHz)	±0.1	-0.8	+0.4 -0.1	2	2
9	1-10	1.30 (1 to 2 GHz) 1.25 (2 to 10 GHz)	±0.1	-0.8	+0.4 -0.1	2	2
10	1-12.4	1.30 (1 to 2 GHz) 1.25 (2 to 12.4 GHz)	±0.1	-0.8	+0.4 -0.1	2	2
20	2-12.4	1.30	±0.2	-0.9*	+0.4 -0.1	2	2

\* At 2 GHz

\*\*Maximum pulse length, 5  $\mu$  sec.

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

TEMPERATURE COEFFICIENT: 1 to 5 dB:  $<0.0003 \frac{\text{dB}}{\text{dB} \times ^\circ\text{C}}$   
6 to 20 dB:  $<0.0001 \frac{\text{dB}}{\text{dB} \times ^\circ\text{C}}$

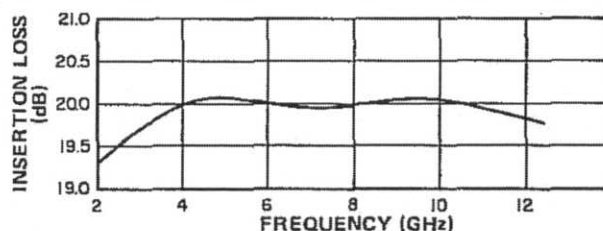
**CALIBRATION FREQUENCIES:** Insertion loss in 50 ohm system at 1.0, 4.0, and 10.0 GHz for 1 to 10 dB attenuators and at 2.0, 4.0, and 10.0 GHz for 20 dB attenuators; SWR is ensured to be within specified limits. Data supplied.

**CONSTRUCTION:** Stainless steel body on all models with Type N stainless steel connectors: male and female (Model 530A); double female (Model 531A); and double male (Model 532A).

**WEIGHT:** Net, 7 oz.; Shipping, 1 lb., 2 oz.

**FEDERAL STOCK NO:** Model 530A-20: 5985-839-4405

**PRICE:** 530A: \$50      531A/532A: \$55



Typical Frequency Sensitivity of Insertion Loss

