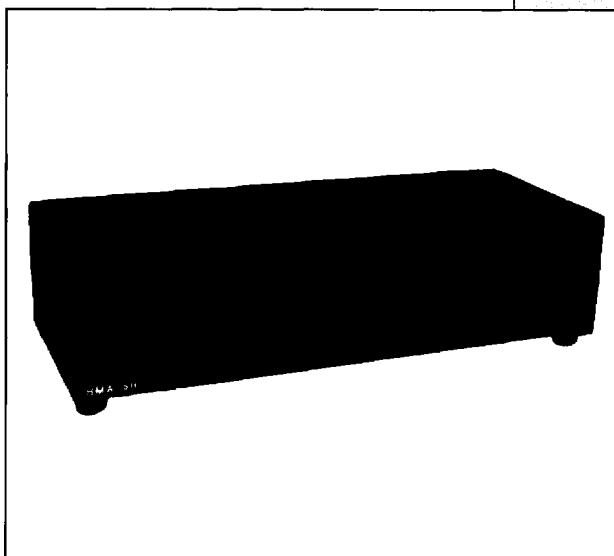




BMA benchtop attenuators offer a wide variety of step sizes, impedances, dynamic ranges, and connectors. The units combine two to three of the quality TA or RA series units in a durable case suitable for bench or

portable use. The internal attenuators have specially designed RF cables routing signals from all of the units to a single pair of connectors located on the back panel.

Specifications	BMA-511*	BMA-711*	BMA-580*	BMA-780*
Frequency Range	DC-1 GHz	DC-1 GHz	DC-2 GHz	DC-1 GHz
dB Value	0 to 11 by 0.1 dB	0 to 11 by 0.1 dB	0 to 80 by 1 dB	0 to 80 by 1 dB
Connectors	BNC, N, SMA, TNC	BNC, F	BNC, N, SMA, TNC	BNC, F
Impedance	50 Ohms	75 Ohms	50 Ohms	75 Ohms
VSWR	1.2:1 to 0.5 GHz 1.3:1 to 1 GHz	1.25:1 to 0.5 GHz 1.35:1 to 1 GHz	1.3:1 to 1 GHz 1.5:1 to 1.5 GHz 1.6:1 to 2 GHz	1.25:1 to 0.5 GHz 1.35:1 to 1 GHz
Accuracy	±0.04 dB to 0.5 GHz (0 to 1 dB) ±0.2 dB to 0.5 GHz (1 to 11 dB) ±0.06 dB to 1 GHz (0 to 1 dB) ±0.3 dB to 1 GHz (1 to 11 dB)	±0.04 dB to 0.5 GHz (0 to 1 dB) ±0.2 dB to 0.5 GHz (1 to 11 dB) ±0.06 dB to 1 GHz (0 to 1 dB) ±0.3 dB to 1 GHz (1 to 11 dB)	±0.2 dB to 0.5 GHz (0 to 10 dB) ±1.0 dB to 0.5 GHz (11 to 80 dB) ±0.3 dB to 1 GHz (0 to 10 dB) ±1.0 dB to 1 GHz (11 to 80 dB) ±0.5 dB to 2 GHz (0 to 10 dB) ±2.0 dB to 2 GHz (11 to 80 dB)	±0.2 dB to 0.5 GHz (0 to 10 dB) ±0.75 dB to 0.5 GHz (11 to 80 dB) ±0.3 dB to 1 GHz (0 to 10 dB) ±0.75 dB to 1 GHz (11 to 80 dB)
Insertion Loss	1.1 dB max. to 0.5 GHz 1.25 dB max. to 1 GHz	1.1 dB max. to 0.5 GHz 1.5 dB max. to 1 GHz	0.6 dB max. to 0.5 GHz 0.75 dB max. to 1 GHz 1.3 dB max. to 2 GHz	0.65 dB max. to 0.5 GHz 1 dB max. to 1 GHz
Temperature	-18° to +80°C	-18° to +80°C	-18° to +80°C	-18° to +80°C
Average Power	0.5 Watt (25°C)	0.5 Watt (25°C)	0.5 Watt (25°C)	0.5 Watt (25°C)
Peak Power	750 Watts, 3μSec. pulse	750 Watts, 3μSec. pulse	750 Watts, 3μSec. pulse	750 Watts, 3μSec. pulse
Rotation	30 degrees	30 degrees	30 degrees	30 degrees
Weight	2 lb. 6 oz.	2 lb. 6 oz.	2 lb. 6 oz.	2 lb. 6 oz.
Housing	Baked enamel on aluminum	Baked enamel on aluminum	Baked enamel on aluminum	Baked enamel on aluminum

Dimension	Model						
	BMA-511	BMA-711	BMA-580	BMA-780	BMA-581	BMA-781	BMA-550
Width (Inches)	6.125	6.625	6.125	6.625	10.125	10.125	6.125
Height (Inches)	2.625	2.625	2.625	2.625	2.625	2.625	2.625
Depth (Inches)	3.250	4.125	3.250	4.125	4.125	4.125	3.250

Excludes knobs and connectors

Specifications	BMA-581*	BMA-781*	BMA-550*
Frequency Range	DC-1 GHz	DC-1 GHz	DC-1.2 GHz
dB Value	0 to 81 by 0.1 dB	0 to 81 by 0.1 dB	0 to 110 by 1 dB
Connectors	BNC, N, SMA, TNC	BNC, F	BNC, N, SMA, TNC
Impedance	50 Ohms	75 Ohms	50 Ohms
VSWR	1.2:1 to 0.5 GHz 1.3:1 to 1 GHz	1.25:1 to 0.5 GHz 1.4:1 to 1 GHz	1.2:1 to 0.5 GHz 1.3:1 to 1 GHz 1.4:1 to 1.2 GHz
Accuracy	±0.04 dB to 0.5 GHz (0 to 1 dB) ±0.2 dB to 0.5 GHz (1 to 11 dB) ±0.75 dB to 0.5 GHz (11 to 81 dB) ±0.06 dB to 1 GHz (0 to 1 dB) ±0.03 dB to 1 GHz (1 to 11 dB) ±0.75 dB to 1 GHz (11 to 81 dB)	±0.04 dB to 0.5 GHz (0 to 1 dB) ±0.2 dB to 0.5 GHz (1 to 11 dB) ±0.75 dB to 0.5 GHz (11 to 81 dB) ±0.06 dB to 1 GHz (0 to 1 dB) ±0.3 dB to 1 GHz (1 to 11 dB) ±0.75 dB to 1 GHz (11 to 81 dB)	±0.1 dB to 0.03 GHz (0 to 10 dB) ±1% to 0.03 GHz (11 to 110 dB) ±0.3 dB to 0.5 GHz (0 to 10 dB) ±2% to 0.5 GHz (11 to 110 dB) ±0.4 dB to 1 GHz (0 to 10 dB) ±3% to 1 GHz (11 to 110 dB)
Insertion Loss	1.5 dB max. to 0.5 GHz 2 dB max. to 1 GHz	1.5 dB max. to 0.5 GHz 2 dB max. to 1 GHz	0.6 dB max. to 1 GHz
Temperature	-18° to +80°C	-18° to +80°C	-20° to +125°C
Average Power	1 Watt (25°C)	1 Watt (25°C)	1 Watt (25°C)
Peak Power	750 Watts, 3μSec. pulse	750 Watts, 3μSec. pulse	750 Watts, 3μSec. pulse
Rotation	30 degrees	30 degrees	30 degrees
Weight	3 lb. 6 oz.	3 lb. 6 oz.	1 lb. 14 oz.
Housing	Baked enamel on aluminum	Baked enamel on aluminum	Baked enamel on aluminum

* Connector types should be included in model number.

Example: BMA-581 TNC

Note: Specifications valid through rated frequency range of each model.