

DB 877 DEKABOX decade resistor

Accuracy: Accuracy of resistance increments is given in the accompanying table. (See Model DB 655.) Accuracy of resistance change from zero setting is given below.

Initial: $\pm(0.01\% + 7 \text{ m}\Omega)$.

Long-Term: $\pm(0.02\% + 10 \text{ m}\Omega)$.

Short-Term Switching Repeatability:
 $\pm 1 \text{ m}\Omega$ (typical).

Number of Decades: Eight.

Total Resistance: 12 M Ω .

Resistance Per Decade: See table.

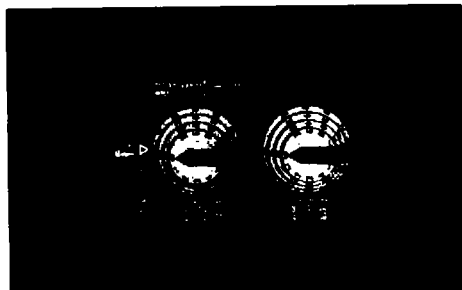
Smallest Step: 0.1 Ω .

Resistance at Zero Setting: Approx 40 m Ω .

Breakdown Voltage: 1000 V peak to case.

Dimensions: Width 8.5 in. (21.6 cm), height 5.9 in. (15.0 cm), depth 6.5 in. (16.5 cm).

Weight: 7.5 lb (3.4 kg).



U.S. Patents 2,786,122 and 3,150,634.

esi[®]

DEKABOX[®] in-line decade resistors



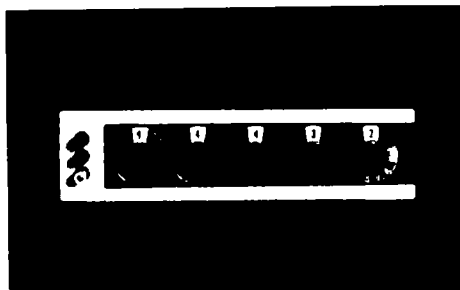
- precision dc, audio frequency use
- rapid, error-free setting and reading
- precision wire-wound resistors throughout

The DEKABOX in-line decade resistors are designed for precision dc and audio frequency use. They feature high accuracy, ease of setting, and rapid, error-free reading. Units having four, five, and six dials are available. The smallest step provided is 0.01 ohm; the largest total resistance available is slightly greater than 11 megohms.

Initial adjustment precision is maintained by sound electrical and mechanical design and by the use of materials of highest stability. Accuracy over a wide range of ambient conditions is assured by the use of resistors of low temperature and power coefficients. Switches having multiple contacts made of solid silver-alloy provide low, stable contact resistance. Insulation and circuit design minimize leakage effects.

The bar knobs that rotate the decade switches are especially designed to permit decade setting with a minimum of visual attention. Each dial steps its decade from 0 through 10 times the resistance per step. All dials turn a full 360 degrees to simplify and speed settings. The "10" position on each dial gives overlap on every decade; the unused "11" position is not detented and can be identified by feel.

The DEKABOX resistance values are easily read from the large-numeral in-line presentation above the knobs. Resistance per step and current rating of each decade are presented below the knobs for operator convenience and circuit safety. A sturdy aluminum housing provides both mechanical protection and electrical shielding for the resistance decades.



MODEL DB 52

DECADE AND RESISTANCE VALUES
Models DB 52, and DB 62

MODEL NO.	TOTAL RESISTANCE (Ω)	RESISTANCE PER STEP (Ω)	RESISTANCE VALUES (Ω)					
			R1	R2	R3	R4	R5	R6
DB 52	11.111 M	100	1 M	100 k	10 k	1 k	100	
	1.1111 M	10	100 k	10 k	1 k	100	10	
	111.11 k	1	10 k	1 k	100	10	1	
	11.111 k	0.1	1 k	100	10	1	0.1	
	1.1111 k	0.01	100	10	1	0.1	0.01	
DB 62	11.1111 M	10	1 M	100 k	10 k	1 k	100	10
	1.11111 M	1	100 k	10 k	1 k	100	10	1
	111.111 k	0.1	10 k	1 k	100	10	1	0.1
	11.1111 k	0.01	1 k	100	10	1	0.1	0.01