

Телефон: +7 (499) 685-4444 info@4test.ru www.4test.ru

DB62 Series

The DB62 Series offers a dependable, long-term service in precision dc through audio frequency applications. The units feature 6 decades with non-inductive, precision resistors mounted in a low-noise, shielded housing. After inheriting the DB62 series from esi, IET used its own resistance technology to significantly improve the stability of the unit.



led

Sample DB62 Decade Resistor

Features:

• Four available models

applications

• High accuracy: ±(0.01% + 2 mΩ)

Serves DC through audio frequency

- Improved stability: ±20 ppm/year
- Low TC: ±5 ppm/°C

SPECIFICATIONS -

					mpru	mpro		
Resistance per step	Total decade resistance	Max current	Max voltage (per step)	Max power (per step)	Stability (±ppm/yr)	Long-term stability (±ppm/3 yrs)	Temperature coefficient (±ppm/°C)	Resistor type
10 m Ω	100 mΩ	4.0 A	40 mV	0.16 W	50	75	20	Resistance wire
100 m Ω	1 Ω	1.6 A	0.16 V	0.25 W	50	75	20	
1Ω	10 Ω	0.8 A	0.8 V	0.6 W	20	25	20	Wirewound, non- inductive
10 Ω	100 Ω	0.25 A	2.5 V	0.6 W	20	25	15	
100 Ω	1 kΩ	80 mA	8 V	0.6 W	20	25	5	
1 k Ω	10 kΩ	23 mA	23 V	0.5 W	20	25	5	
10 k Ω	100 kΩ	7 mA	70 V	0.5 W	20	25	5	
100 k Ω	1 MΩ	2.3 mA*	230 V*	0.5 W*	20	25	5	
1 Μ Ω	10 MΩ	0.7 mA*	700 V*	0.5 W*	20	25	10	

*Subject to maximum of 2000 V to case

Accuracy:

 $\pm(0.01\%+2~m\Omega)$ after subtraction of zero resistance, at 23°C; traceable to SI

Zero resistance:

<1 mΩ per decade at dc

Max voltage to case:

2000 V peak

Terminals:

Gold-plated, 5-way, tellurium-copper binding posts with low thermal emf and low resistance. Rear outputs are available as an option.

Environmental conditions:

Operating: 10°C to 40°C; <50% RH **Storage:** -40°C to 70°C

Switches:

Six decades Continuous rotation 11 positions marked "0"-"10" Multiple solid silver-alloy contacts

Mechanical:

Dimensions: 43.9 cm W x 8.9 cm H x 10.2 cm D (17.3" x 3.5" x 4") Weight: 2.4 kg (5.3 lb)

ORDERING INFORMATION =

DB62-11K DB62-111K	Dekabox, 6-decade, 11.111 k Ω , 0.01 Ω per step Dekabox, 6-decade, 111.111 k Ω , 0.1 Ω per step
DB62-1M DB62-11M	Dekabox, 6-decade, 1.11111 M Ω , 1 Ω per step Dekabox, 6-decade, 11.1111 M Ω , 10 Ω per step



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Dekabox In-Line

Decade Resistors