

High Current Oval Edge-wound Power Resistors

**(DOE) The Choice
When Conditions Demand Top-Notch Performance**



► Preview

Token DOE Series are commonly used as a dynamic braking resistor on Transit applications. Built to perform in rugged environments, they feature corrosion resistant stainless steel insulator supports, solid nickel terminals, and special electroless nickel-plated solid copper terminal supports.

The resistance element is made of a stainless steel resistance alloy. Terminals are welded or silver brazed to the oval, spiral edge-wound resistance element. Toothed ceramic insulators isolate the resistance element from the center support. Ceramic end bushings insulate the center support from the mountings.

Order individual replacement units or entire grids with various mounting configurations. Contact us with your specific needs.

Options :

- Terminal blocks, thermal switches, conduit knockouts, fusing, fans, and other customer specified requirements are available on request.

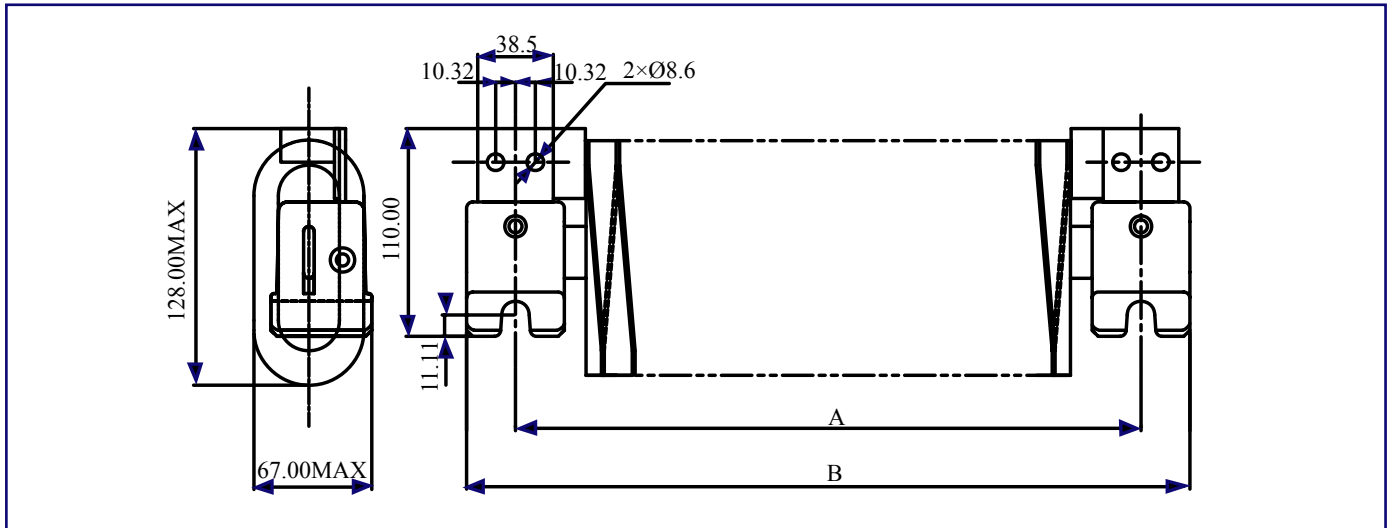
Features :

- Power rating from 550W to 3250W
- Resistance nominal tolerance $\pm 10\%$ (K)
- Resistance value range 0.2Ω to 2Ω ,
- suitable for high current applications

Applications:

- Power Industrial Machinery,
- Dynamic Braking, Load Banks, Motor Starting,
- Plugging, Power Load Measurements, Electric Distribution,
- Instrumentation, Automation Control Installations.

▶ (DOE) 550W - 3250W Dimensions

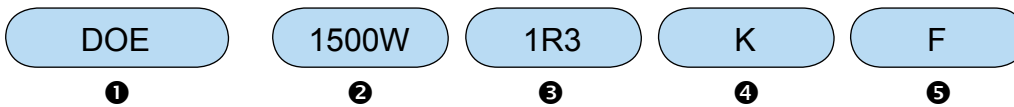


Power Rating	A (mm)	B (mm)	Resistance Value Range
550W	244.5	295	0R2~2R
900W	335	385.5	
1200W	419	470	
1500W	505	556	
1800W	588	638	
3250W	410	465	

▶ How to Order

TEST ITEM	TEST METHODS	CHARACTERISTICS
Resistance tolerance	JIS-C-5202 5-1	Resistance Nominal Tolerance $\pm 10\%$ (K)
Temperature coefficient	JIS-C-5202 5-2	$\pm 300\text{ppm}/^\circ\text{C}$ max.
Power rating load	JIS-C-5202 5-4	R/R $\leq \pm(1\%+0.1\Omega)$ Surface temperature up 350°C max.
Dielectric withstanding voltage	JIS-C-5202 5-7 2000VDC 1 minute Between terminal and anchor stand	Free of appearance or structural irregularity $\Delta R/R \leq \pm(1\%+0.1\Omega)$
Terminal strength	JIS-C-5202 6-1 500N 30 seconds	Free of appearance or structural irregularity
Insulation resistance	JIS-C-5202 5-6 500VDC	100M Ω min
Short-term overload	JIS-C-5202 5-5 1000% rated power 5 seconds	Free of appearance or structural irregularity $\Delta R/R \leq \pm(2\%+0.1\Omega)$
Vibration	JIS-C-5202 6-3 490m/s ² 11ms	Free of appearance or structural irregularity Surface coating crack $\Delta R/R \leq \pm(2\%+0.1\Omega)$
Remarks	Resistance and resistance tolerance were tested in-house with micro resistance meter.	

▶ How to Order



- ❶ Part Number: DOE
- ❷ Rated Power (W): 550W~3250W
- ❸ Resistance Value (Ω):

Code	Resistance Value
1R3	1.3 Ω
13R	13 Ω

- ❹ Resistance Tolerance (%)

Code	Resistance Tolerance
K	$\pm 10\%$

- ❺ Lead Free

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