



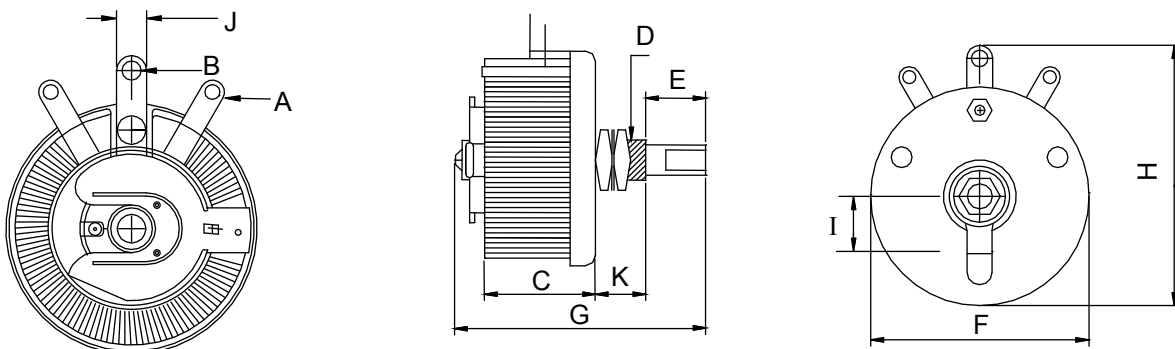
Power Resistors

Variable Resistors Power Type - FVR Series / 线绕可变电阻

A C-shaped ceramic is wound with copper or chromium-alloy wire as a resistance element. Except for the slide contact surface, the entire component is coated with a high-temperature, non-flammable resin. After cooling and drying, insulation is applied through a high-temperature process. Then, a centered rotating adjuster component is installed, which slides along the resistance element and varies the resistance to the desired value. The scope of the application includes educational modeling, load simulations, industrial machinery RPM adjustment, voltage and current adjustment, instruments, and automated control installations. For custom specifications, please contact us to discuss the details.



▶ Variable Resistor FVR Type 25W - 100W



Wattage Rating	Dimensions(mm)											Resistance Range(Ω)	
	A	B	C	D	E	F	G	H	I	J	K		Weight
25W	2.5	3.2	22	3/8"	6x12	42	50	50	11	5	10	74/g	5 Ω -2.5K Ω
50W	4.2	4.2	28	3/8"	6x12	64	60	70	11	8	14	160/g	7 Ω -3.5K Ω
100W	4.2	4.2	42	3/8"	6x12	85	75	90	11	8	14	372/g	10 Ω -5K Ω

Notice: All dimensions might be changed or modified, please refer to last updating specification.

▶ Variable Resistor Performance Specifications

Test Item	Test Methods	Characteristics
Resistance tolerance	JIS-C-5261 5-1	Resistance tolerance $\pm 10\%$
Insulation resistance	JIS-C-5261 6-1 500VDC	100M Ω min
Dielectric withstanding voltage	JIS-C-5261 7-1 1000VDC 1 minute Between terminal and axis	Free of appearance or structural irregularity
Terminal strength	JIS-C-5261 6-5 3kg 30 seconds	Free of appearance or structural irregularity $\Delta R/R \leq \pm(2\%+0.1\Omega)$
Vibration	JIS-C-5261 6-6 1.5m/m 10 ~ 50 ~ 10 Hz/min X-Y-Z 2 hours each	Free of appearance or structural irregularity $\Delta R/R \leq \pm(2\%+0.1\Omega)$
Load life	JIS-C-5261 7-7	Free of appearance or structural irregularity $\Delta R/R \leq \pm(5\%+0.1\Omega)$
Full gyration angle	JIS-C-5261 6-1	300 $\pm 5^\circ$ C
Flame retardation	100% - 600% rated wattage load	US UL-94 flame retardation test V-0 grade noncombustible
Remarks	1. Resistance and resistance tolerance were tested in-house with micro resistance meter. 2. Coating refers to UL-certified data provided by supplier.	



Power Resistors

▶ How to Order

FVR

❶

25W

❷

2.5KR

❸

K

❹

❶ Product Type: FVR type

❷ Rated Wattage: 25W~100W

❸ Resistance Value(Ω): (Ω)

Indicates Resistance
Value in Units of Ohms.

❹ Resistance Tolerance: K($\pm 10\%$)

