

Wirewound Flat Stackable Power Resistors

SPECIFICATION



Supplier:	BEC DISTRIBUTION LIMITED
Part No.:	9191000TK RESISTOR 140W 2R5J v2
Part Name:	Flat Stackable Power Resistors
Ordering Ref.:	1000BC140W2R5J v2

Further info: sales@bec.co.uk www.bec.co.uk

© 2018 BEC Distribution Ltd - All Rights Reserved

T: +44(0)1844 275824 E: sales@bec.co.uk

Registered in England: No 09932354.

Registered Office: 4 Edging Lane, Buckingham,

Buckinghamshire, MK18 7SD

► Product Introduction

Features :

- ZR resistor is a flat tubular ceramic rod has two terminals and is wirewound with either copper wire or chromium alloy wire as a resistance element.

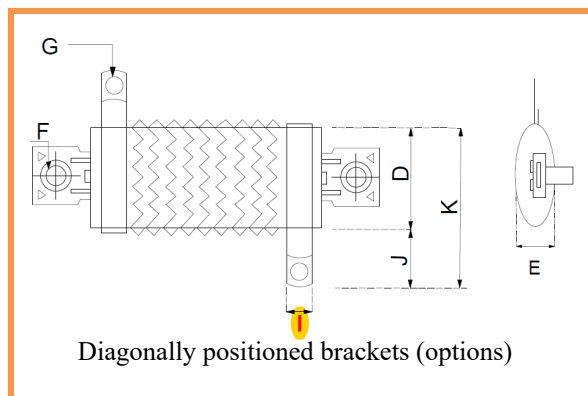
Applications :

- Mainly utilized for industrial installations where height is limited. Features excellent windings, taps adding, low impedance, and PC board insertable.

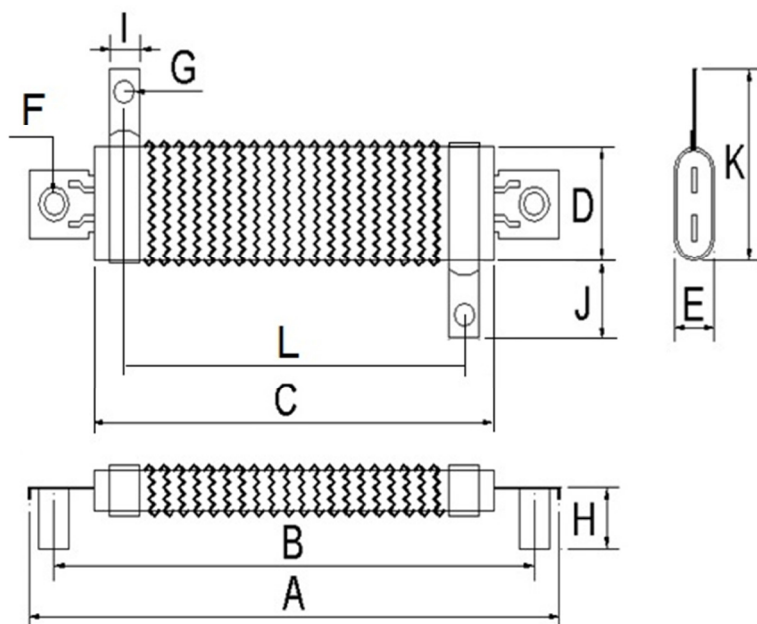
The oval-shaped ceramic-core resistors feature a low profile to permit installation in spaces with height restrictions.

They are also equipped with integral mounting brackets so they can be fastened to a chassis and stacked in locations with limited surface area. When properly fastened, the mounting brackets add a heat sinking benefit resulting in a smaller size per watt. Durable ZR flat resistors are fully welded and coated with lead free non-flammable resin.

ZR resistors are suitable for educational modeling applications, load testing, industrial machinery, electric power distribution, instruments, automation control installations, etc.



► Construction & Dimensions



Type	Resistance Value	Dimensions (Unit: mm)											
		A±3	B±3	C±3	D±1.5	E±1	F±0.5	G±0.5	H±1	I±1	J±1	K±1	L±3
Diagonal T	2.5Ω	183	170	150	33	16	5.2	4.1	13	6.5	12	42	120.5

Remark: The pitch "L" of the 2 terminal is 120.5±3 mm (Reference)

Electrical Characteristics

Test Item	Test Methods	Characteristics
Resistance Tolerance	JIS-C-5202 5-1	Resistance Nominal Tolerance J ($\pm 5\%$)
Temperature Coefficient	JIS-C-5202 5-2	$\pm 350 \text{ ppm}/^\circ\text{C}$ Max.
Load Rating	JIS-C-5202 5-4	$\Delta R/R \leq \pm(0.5\% + 0.1\Omega)$ Surface temp. up 350°C Max.
Short-Term Overload	JIS-C-5202 5-5 500% rated power 5 seconds	Free of appearance or structural irregularity $\Delta R/R \leq \pm(2\% + 0.1\Omega)$
Insulation Resistance	JIS-C-5202 5-6 500VDC	100M Ω Min.
Dielectric Withstanding Voltage	JIS-C-5202 5-7 1000VDC 1 minute between terminal and anchor stand.	Free of appearance or structural irregularity $\Delta R/R \leq \pm(0.1\% + 0.05\Omega)$
Terminal Strength	JIS-C-5202 6-1 8Kg 30 seconds	Free of appearance or structural irregularity
Vibration	JIS-C-5202 6-3 1.5m/m 10 ~50 ~10 Hz/min X-Y-Z 2 hours each	Free of appearance or structural irregularity surface coating crack $\Delta R/R \leq \pm(1\% + 0.05\Omega)$
Thermal Shock	JIS-C-5202 7-3 Room temp 30 minutes ON $\sim 55^\circ\text{C}$ 15 minutes OFF	Free of structural irregularity $\Delta R/R \leq \pm(2\% + 0.1\Omega)$
Humidity	JIS-C-5202 7-5 40°C 90%RH 240 hours	Free of appearance or structural irregularity surface coating crack $\Delta R/R \leq \pm(3\% + 0.1\Omega)$
Load Life	JIS-C-5202 7-10 90 minutes ON - 30 minutes OFF 500 hours	Free of appearance or structural irregularity surface coating crack $\Delta R/R \leq \pm(5\% + 0.1\Omega)$
Flame Retardation	JIS-C-5202 7-13-3-2 100% ~600% rated power load	US UL-94 flame retardation test V-0 grade noncombustible
Remarks	Resistance and resistance tolerance were tested in-house with micro resistance meter. Resistor coating refers to UL-certified data provided by supplier	

Derating Curve

