Oval Flat-Wirewound Power Resistors

When Limited Space is Required, Choose Token's "Thin" Stackable (ZR) Resistors

Preview

Token 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 power 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.

The ZR Series is RoHS compliant and lead free. For non-standard technical requirements and custom special applications, please contact us.

Non-Inductive :

- Ayrton Perry type non-inductive winding is available. When required add "N" to the part number.

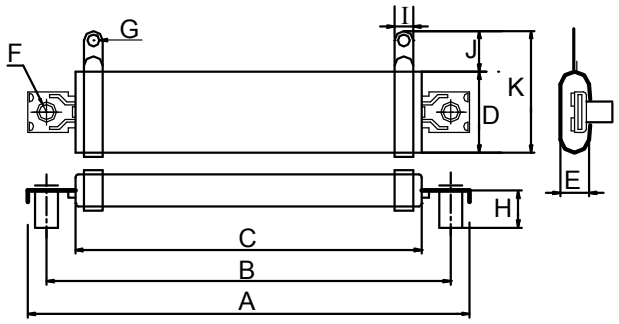
Construction :

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

Notes :

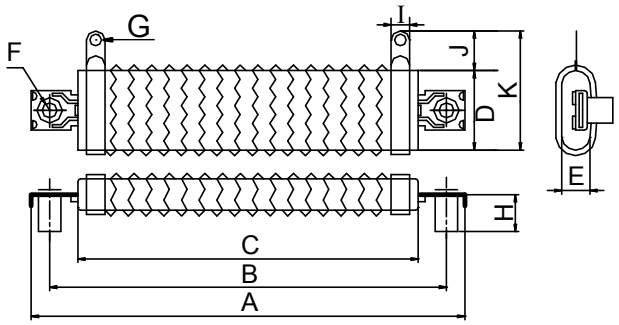
- When resistors are stacked, use washers or spacers as required to insure clearance and improve power dissipation.

Set-Type Wirewound (ZDR) 40W ~ 300W Dimensions



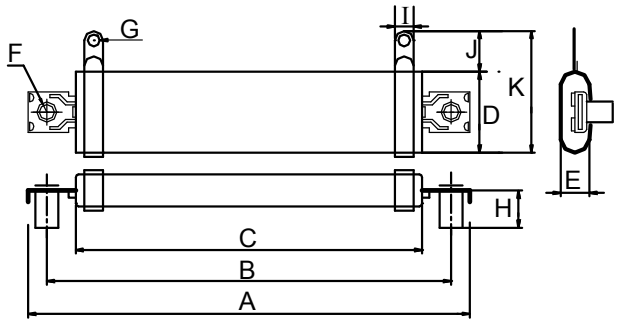
Wattage Rating	Dimensions(mm)											Resistance Range(Ω)
	A	B	C	D	E	F	G	H	I	J	K	
40W	83	70	50	28	11	5.2	4.1	13	6.5	12	42	0.1~5KΩ
55W	123	110	90	28	11	5.2	4.1	13	6.5	12	42	0.1~6KΩ
70W	153	140	120	28	11	5.2	4.1	13	6.5	12	42	0.1~7KΩ
95W	183	170	150	28	11	5.2	4.1	13	6.5	12	42	0.1~10KΩ
100W	193	180	160	28	11	5.2	4.1	13	6.5	12	42	0.1~12KΩ
120W	218	205	185	28	11	5.2	4.1	13	9	12	42	0.1~15KΩ
150W	218	205	185	35	11	5.2	5.2	13	9	13	48	0.1~18KΩ
200W	243	230	210	35	11	5.2	5.2	13	9	13	48	0.1~25KΩ
250W	287	274	254	35	11	5.2	5.2	13	9	13	48	0.1~30KΩ
300W	333	320	300	35	11	5.2	5.2	13	9	13	48	0.1~35KΩ

Wave-Type Wirewound (ZQR) 60W ~ 450W Dimensions



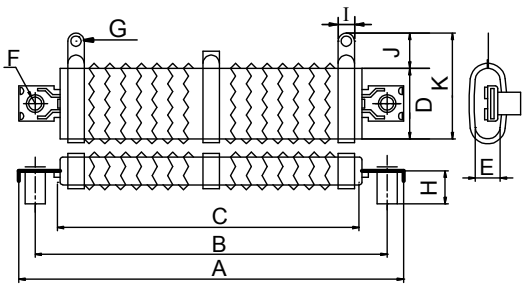
Wattage Rating	Dimensions(mm)											Resistance Range(Ω)
	A	B	C	D	E	F	G	H	I	J	K	
60W	83	70	50	28	11	5.2	4.1	13	6.5	12	42	1~4Ω
80W	123	110	90	28	11	5.2	4.1	13	6.5	12	42	1~5Ω
100W	153	140	120	28	11	5.2	4.1	13	6.5	12	42	1~7Ω
140W	183	170	150	28	11	5.2	4.1	13	6.5	12	42	1~9Ω
150W	193	180	160	28	11	5.2	4.1	13	6.5	12	42	1~10Ω
180W	218	205	185	28	11	5.2	4.1	13	9	12	42	1~12Ω
225W	218	205	185	35	11	5.2	5.2	13	9	13	48	1~15Ω
300W	243	230	210	35	11	5.2	5.2	13	9	13	48	1~20Ω
375W	287	274	254	35	11	5.2	5.2	13	9	13	48	1~25Ω
450W	333	320	300	35	11	5.2	5.2	13	9	13	48	1~30Ω

Set-Type Non-Inductive Wirewound (ZDN) 40W ~ 300W Dimensions



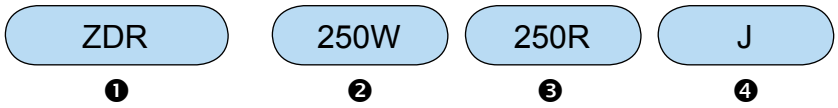
Wattage Rating	Dimensions(mm)											Resistance Range(Ω)
	A	B	C	D	E	F	G	H	I	J	K	
40W	83	70	50	28	11	5.2	4.1	13	6.5	12	42	0.1~2KΩ
55W	123	110	90	28	11	5.2	4.1	13	6.5	12	42	0.1~2.5KΩ
70W	153	140	120	28	11	5.2	4.1	13	6.5	12	42	0.1~3KΩ
95W	183	170	150	28	11	5.2	4.1	13	6.5	12	42	0.1~4.5KΩ
100W	193	180	160	28	11	5.2	4.1	13	6.5	12	42	0.1~5.5KΩ
120W	218	205	185	28	11	5.2	4.1	13	9	12	42	0.1~7KΩ
150W	218	205	185	35	11	5.2	5.2	13	9	13	48	0.1~8.5KΩ
200W	243	230	210	35	11	5.2	5.2	13	9	13	48	0.1~12KΩ
250W	287	274	254	35	11	5.2	5.2	13	9	13	48	0.1~14KΩ
300W	333	320	300	35	11	5.2	5.2	13	9	13	48	0.1~16KΩ

Wave-Type Wirewound (ZQR) 60W ~ 450W Dimensions



Wattage Rating	Dimensions(mm)											Resistance Range(Ω)
	A	B	C	D	E	F	G	H	I	J	K	
60W	83	70	50	28	11	5.2	4.1	13	6.5	12	42	1~4Ω
80W	123	110	90	28	11	5.2	4.1	13	6.5	12	42	1~5Ω
100W	153	140	120	28	11	5.2	4.1	13	6.5	12	42	1~7Ω
140W	183	170	150	28	11	5.2	4.1	13	6.5	12	42	1~9Ω
150W	193	180	160	28	11	5.2	4.1	13	6.5	12	42	1~10Ω
180W	218	205	185	28	11	5.2	4.1	13	9	12	42	1~12Ω
225W	218	205	185	35	11	5.2	5.2	13	9	13	48	1~15Ω
300W	243	230	210	35	11	5.2	5.2	13	9	13	48	1~20Ω
375W	287	274	254	35	11	5.2	5.2	13	9	13	48	1~25Ω
450W	333	320	300	35	11	5.2	5.2	13	9	13	48	1~30Ω

How to Order



❶ Part Number: ZDR
ZQR
ZDN
ZQN

❷ Rated Power (W): 40W~300W
60W~450W
40W~300W
60W~450W

❸ Resistance Value (Ω):

Code	Resistance Value
0R1	0.1Ω
1R	1Ω
10R	10Ω
12R	12Ω
12K	12KΩ

❹ Resistance Tolerance (%)

Code	Resistance Tolerance
H	±3%
J	±5%
K	±10%

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