

DRB Flat Ceramic Form Wirewound Resistor

Type A: DRB Series
Type B: DQB Series
Type C: DNB Series(Non-inductive)

Power Rating: 40W-500W
Resistance value: 0.1Ω-20KΩ
Resistance tolerance: ±1%, ±2%, ±5%, ±10%



● Construction:

1. A flat tubular ceramic has two terminals and is wound with either copper wire or chromium alloy wire as a resistance element. It is coated with a high-temperature non-flammable resin. When cooled and dried, it is encapsulated in insulation through a high-temperature process before the final installation of the component mounts.
2. It is mainly utilized for industrial installations where height is limited.

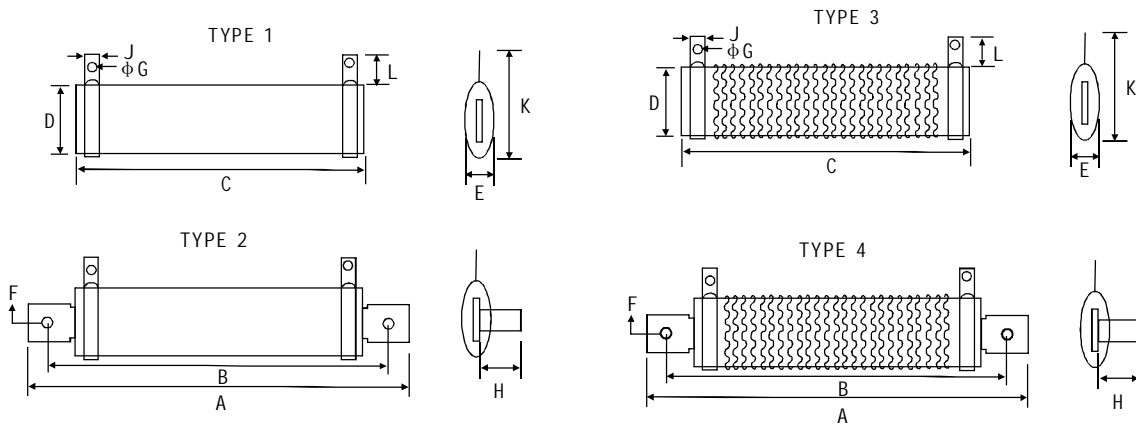
● Features:

1. Anti-corrosion, excellent heat resistance; the resistor has small temperature coefficient and linear change.
2. It is normal that the resistor is smoking when it is used in the first power.
3. Due to the excellent windings, many taps can be added, impedance is low, and PC board is insertable, and usable for many other integrated applications.
4. For custom specifications, please contact us to discuss the details.
5. Conforms to the ROHS standard and the LEAD-FREE non-lead standard.
6. Delivery: 7-10 days

● Applications:

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

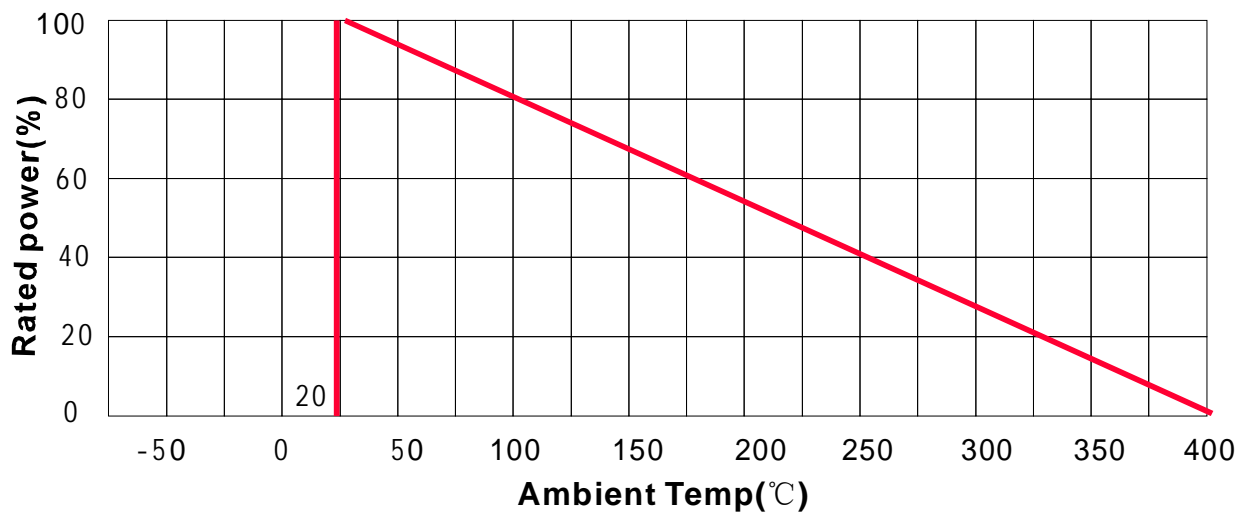
● Dimensions



Power Rating			Dimensions(mm)										
DRB	DNR	DQB	A±2	B±2	C±1	D±1	E±1	F±0.2	G±0.2	H±1	J±0.2	K±1	L±1
40W	40W	60W	103	70	50	27	9	5.2	4.1	13	6.5	42	12
50W	50W	80W	123	110	90	27	9	5.2	4.1	13	6.5	42	12
60W	60W	100W	123	110	90	27	9	5.2	4.1	13	6.5	42	12
80W	80W	100W	153	140	120	27	9	5.2	4.1	13	6.5	42	12
100W	100W	150W	183	170	150	27	9	5.2	4.1	13	6.5	42	12
120W	120W	200W	193	180	160	27	9	5.2	4.1	13	6.5	42	12
150W	150W	250W	218	205	185	27	11	5.2	4.1	13	6.5	42	12
200W	200W	300W	243	230	210	35	11	5.2	5.2	13	9	48	13
250W	250W	400W	287	274	254	35	11	5.2	5.2	13	9	48	13
300W	300W	500W	333	320	300	35	11	5.2	5.2	13	9	48	13

We can do the resistors following customer special requirement.

● Derating



● Performance Specifications

Test item	Test condition	Specifications
Resistance tolerance	JIS-C-5202 5-1	Resistance Nominal Tolerance $1 \leq R < 10 \leq R \pm 5\%(J) \pm 10\%(K)$
Temperature coefficient	JIS-C-5202 5-2	$\pm 350 \text{PPM}^\circ\text{C}$ Max
Power rating load	JIS-C-5202 5-4 40°C, power rating 1H	$\Delta R \leq \pm(1\% + 0.1\Omega)$ Surface temperature $\leq 350^\circ\text{C}$
Short-term overload	JIS-C-5202 5-5 1000% rated power 5s	Free of appearance or structural irregularity $\Delta R \leq \pm(2\% + 0.1\Omega)$
Insulation resistance	JIS-C-5202 5-6 1000V DC	100 MΩ Min
Dielectric withstanding voltage	JIS-C-5202 5-7 1000VDC 1 minute Between terminal and anchor stand	Free of appearance or structural irregularity $\Delta R \leq \pm(0.1\% + 0.05\Omega)$
Terminal strength	JIS-C-5202 6-1 8kg 30 seconds	Free of appearance or structural irregularity
Vibration	JIS-C-5202 6-3 1.5mm, 10-50-10Hz/min X-Y-Z2 hours each	Free of appearance or structural irregularity $\Delta R \leq \pm(1\% + 0.05\Omega)$
Thermal shock	JIS-C-5202 7-3 Room temp 30 min ON-55°C 15 min OFF	Resistor free of structural irregularity crack of silicon cement surface $\Delta R \leq \pm(2\% + 0.1\Omega)$
Humidity	JIS-C-5202 7-5 40°C 90%RH 240 hours	Free of appearance or structural irregularity Surface coating crack $\Delta R/R \leq \pm(31\% + 0.1\Omega)$
Load life	JIS-C-5202 7-10 90 minutes ON - 30 minutes OFF 500 hours	Free of appearance or structural irregularity Surface coating crack $\Delta R/R \leq \pm(1\% + 0.05\Omega)$

● How to order

DRB	50W	10Ω	J
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Type	Power Rating	Resistance Value	Resistance Tolerance
DRB	40W-300W	0.1Ω - 20kΩ	
DNR	40W-300W	1Ω - 10kΩ	±1%, ±2%, ±5%, ±10%
DQR	60W-500W	1Ω - 100Ω	