

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.

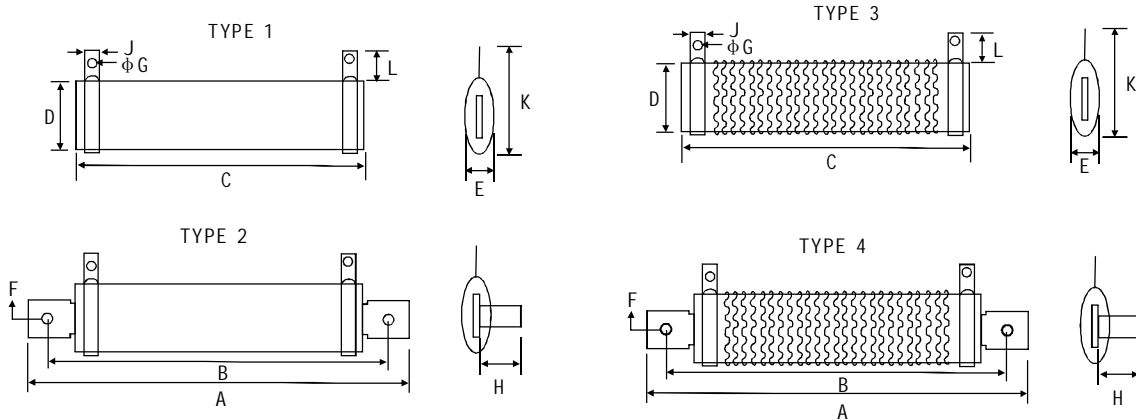
● Features:

- 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 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:7-10days

● Applications:

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

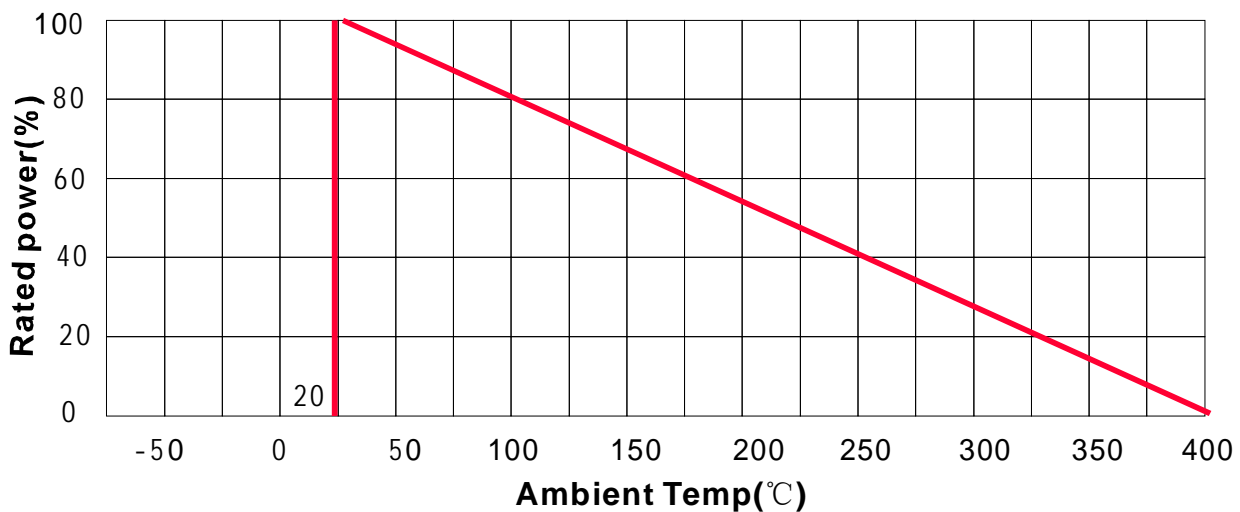
● Dimensions



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 M Ω Min
Dielectric withstanding voltage	JIS-C-5202 5-7 1000VDC 1 minute Between terminal and anchor stand	Free of appearance or structural irregularity $\Delta R \leq \pm(0.1\% + 0.05\Omega)$
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	10 Ω	J
①	②	③	④
Type	Power Rating	Resistance Value	Resistance Tolerance
DRB	40W-300W	0.1 Ω -20k Ω	
DNR	40W-300W	1 Ω -10k Ω	$\pm 1\%, \pm 2\%, \pm 5\%, \pm 10\%$
DQR	60W-500W	1 Ω -100 Ω	