200 Series

Brown Devil®, Vitreous Enamel Power Resistors

Ohmite's Brown Devils® are small, exceptionally durable power resistors. They feature all-welded construction and rugged, flame resistant conformal lead free vitreous enamel coating to ensure successful performance under high temperatures.

The wirewound 200 Type resistors have a hollow-core construction, which accommodates rigid mounting with brackets or thru bolts.

Mounting brackets not included with resistors.

FEATURES

- Rugged lead free vitreous enamel coating
- All-welded construction.
- Self supporting lead mounting option.
- Higher power ratings.
- Flame-resistant lead free vitreous enamel coating.
- RoHS compliant product available Jan. 2006 Add "E" suffix to part number to specify.

See page 34 for mounting hardware

SPECIFICATIONS

Material

Coating: lead free vitreous enamel.

Core: Ceramic.

Terminals: Tinned axial lead.

Derating: Linearly from 100% @ +25°C to 0% @ +350°C.

Electrical

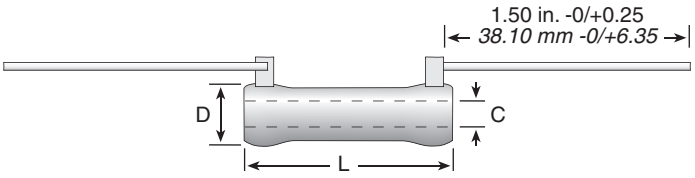
Tolerance: 1Ω and over: ±5% under 1Ω: ±10%

Power rating: Based on 25°C free air rating.

Overload: 10 times rated wattage for 5 seconds.

Temperature coefficient: 5Ω and under: ±400 ppm/°C Above 5Ω: ±260 ppm/°C

To calculate max. amps: use the formula $\sqrt{P/R}$.



Series	Wattage	Ohms	Dimensions (in. / *mm*) Length	Diam.	Core	Lead Gauge	Voltage
B5	5.25	0.1-20K	0.625 / *15.88*	0.250 / *6.35*	0.135 / *3.43*	20	187
B8	8.0	0.03-25K	1.000 / *25.40*	0.313 / *7.94*	0.188 / *4.76*	18	250
B12	12.0	0.08-51K	1.750 / *44.45*	0.313 / *7.94*	0.188 / *4.76*	18	625
B20	20.0	0.1-100K	2.000 / *50.80*	0.438 / *11.11*	0.250 / *6.35*	18	750

Non-Inductive versions available. Insert "N" before tolerance code. **Example** - B5NJ10R
Also available in low cost Centohm coating. Consult Factory.

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage 5.25 B5J	8 B8J	12 B12J	20 B20J
0.5	KR50			✔	✔
1	1R0	✚	✚	✔	✔
1.1	1R1	✣			
1.2	1R2	✣			
1.3	1R3	✣			
1.5	1R5	✔	✚	✔	
1.6	1R6	✔			
1.8	1R8	✔			
2	2R0	✔	✚	✔	✚
2.2	2R2	✣			
2.4	2R4	✔			
2.7	2R7	✔			
3	3R0	✔	✚	✚	✚
3.3	3R3	✔			
3.6	3R6	✔			
3.9	3R9	✔			
4	4R0		✔	✔	✔
4.3	4R3	✔			
4.7	4R7	✔			
5	5R0		✚	✚	✚
5.1	5R1	✔			
5.6	5R6	✔			
6.2	6R2	✔			
6.8	6R8	✔			
7.5	7R5	✔	✔	✔	
8.2	8R2	✔			
9.1	9R1	✔			
10	10R	✚	✚	✚	✚
11	11R	✣			
12	12R	✔	✔	✚	
13	13R	✣			
15	15R	✔	✔	✔	
16	16R	✣			
18	18R	✣			
20	20R	✔	✔	✚	
22	22R	✔			
24	24R	✔			
25	25R		✚	✚	✚
27	27R	✔			
30	30R	✔	✔	✔	
33	33R	✔			
35	35R		✔	✔	
36	36R	✣			
39	39R	✔			
40	40R		✔	✔	✔
43	43R	✔			
47	47R	✔			
50	50R		✔	✚	✚
51	51R	✔			
56	56R	✔			
62	62R	✔			
68	68R	✔			
75	75R	✔	✔	✔	✔
82	82R	✔			
91	91R	✔			
100	100	✔	✚	✚	✚
110	110	✣			
120	120	✔			
125	125		✔	✔	✔
130	130	✣		✔	
150	150	✔	✔		✔
160	160	✔			
180	180	✔			
200	200	✔	✔	✔	✔
220	220	✔			
225	225		✣	✔	
240	240	✔			
250	250		✚	✔	✚
270	270	✔			
300	300	✣	✚	✔	✔
330	330	✔			
350	350		✔	✔	✔
360	360	✣			
390	390	✔			
400	400		✔	✔	✔
430	430	✣			
450	450		✔	✔	
470	470	✔			
500	500		✚	✚	✚
510	510	✔			
560	560	✔			
600	600		✔	✔	
620	620	✔			
650	650				✔
680	680	✔			
700	700		✔	✔	✣
750	750	✔	✔	✔	✔
800	800		✔	✔	✔
820	820	✔			
900	900		✔	✔	✣
910	910	✣			
1,000	1K0	✔	✚	✚	✚
1,100	1K1	✔	✔	✣	
1,200	1K2	✔	✣	✚	✔
1,250	1K25		✔	✔	✔
1,300	1K3	✔			
1,500	1K5	✔	✔	✚	✚
1,600	1K6	✣			
1,750	1K75		✔	✔	✔
1,800	1K8	✣			
2,000	2K0	✔	✔	✚	✚
2,200	2K2	✔			
2,250	2K25		✔	✔	✣
2,400	2K4	✣			
2,500	2K5		✚	✚	✚
2,700	2K7	✔			
2,750	2K75				✔
3,000	3K0	✔	✚	✚	✔
3,300	3K3	✔			
3,500	3K5		✔	✔	✚
3,600	3K6	✣			
3,900	3K9	✔			
4,000	4K0		✔	✚	✔
4,300	4K3	✣			
4,500	4K5	✔	✔	✔	✣
4,700	4K7	✔			
5,000	5K0		✚	✚	✚
5,100	5K1	✔			
5,600	5K6	✔			
6,000	6K0		✔	✔	✔
6,200	6K2	✔			
6,800	6K8	✔			
7,000	7K0		✚	✔	✔
7,500	7K5	✔	✔	✔	✔
8,000	8K0		✚	✔	✔
8,200	8K2	✔			
8,500	8K5			✣	
9,000	9K0		✔	✣	✔
9,100	9K1	✣			
10,000	10K	✚	✚	✚	✚
11,000	11K	✣		✔	
12,000	12K	✔		✔	
12,500	12K5		✔	✔	✔
13,000	13K	✔			
13,500	13K5			✔	
15,000	15K	✔	✚	✚	✔
16,000	16K	✣		✔	
17,500	17K5		✔	✔	
18,000	18K	✣		✔	
20,000	20K	✔	✚	✚	✔
22,500	22K5		✣	✔	
25,000	25K		✔	✔	✔
30,000	30K			✔	✔
35,000	35K			✔	✔
40,000	40K			✔	✔
45,000	45K			✔	✣
50,000	50K			✚	✔
55,000	55K				✣
60,000	60K				✣
65,000	65K				✣
70,000	70K				✣
75,000	75K				✣
80,000	80K				✔
85,000	85K				✣
90,000	90K				✣
95,000	95K				✣
100,000	100K				✣

✚ = Most popular stock values

✔ = Stock values

✣ = Non-stock values subject to minimum handling charge per item

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.