

Ohmite's Brown Devil® is a small, exceptionally durable power resistor. It features all-welded construction and rugged, flame resistant conformal lead free vitreous enamel coating to ensure successful performance under high temperatures.

The wirewound 200 Series has 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 terminal mounting option.
- Higher power ratings.
- Flame-resistant lead free vitreous enamel coating.
- RoHS compliant product available. Add "E" suffix to part number to specify.

See page 36
for mounting hardware

SPECIFICATIONS

Material

Coating: lead free vitreous enamel.

Core: Ceramic.

Terminals: Tinned axial; RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu

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

Electrical

Tolerance: 1Ω+: ±5%
under 1Ω: ±10%

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

Overload: 10 times rated wattage for 5 seconds.

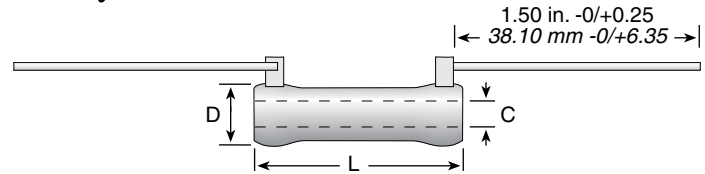
Temperature coefficient: 5Ω and under: ±400 ppm/°C
Above 5Ω: ±260 ppm/°C

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



200 Series

Brown Devil® Vitreous Enamel Power



			Dimensions (in. / mm)			Lead Gauge	Max. Volt. *
Series	Wattage	Ohms	L	D	C		
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** - B5NJ10RE
Also available in low cost Centohm or Silicone coating. Consult Ohmite.
* Maximum Voltage is based on Ohm's Law $[V=\sqrt{P \cdot R}]$ as limited by the resistance value of specified product

ORDERING INFO

Coating	Non-Inductive Winding	RoHS Compliant
Blank = Vitreous C = Centohm S = Silicone	Optional (blank = std. winding)	
B 8 N J 5 R 0 E		
Series	Wattage	Ohms
		Tolerance
		F = 1%
		H = 3%
		J = 5%
		K = 10%
		1R0 = 1 Ω
		250 = 250 Ω
		1K0 = 1,000 Ω
		25K = 25,000 Ω
		25K5 = 25,500 Ω

MADE-TO-ORDER PARTS

Non-Inductive Winding	Core Diameter	RoHS Compliant
Optional (blank = std. winding)	See "Core and Terminal Selection"	
2 0 0 N 8 D 5 R 0 0 J E		
Coating	Wattage	Ohms
200 = Vitreous 400 = Silicone Ceramic	3 5.25 8 12 20	R500 = 0.500 Ω 1R00 = 1 Ω 250R = 250 Ω 1K00 = 1,000 Ω 25K0 = 25,000 Ω 25K5 = 25,500 Ω
		Tolerance
		F = 1%
		H = 3%
		J = 5%
		K = 10%

STANDARD PART NUMBERS FOR 200 SERIES

Wattage			Wattage			Wattage			Wattage			Wattage		
Ohmic value	Part No.	Prefix	Ohmic value	Part No.	Prefix	Ohmic value	Part No.	Prefix	Ohmic value	Part No.	Prefix	Ohmic value	Part No.	Prefix
Suffix	5.25	8	Suffix	5.25	8	Suffix	5.25	8	Suffix	5.25	8	Suffix	5.25	8
12	20	12	20	12	20	12	20	12	20	12	20	12	20	12
0.5	R50E	✓	✓	✓	✓	20	20RE	✓	✓	✓	✓	2,250	2K25E	✓
1	1R0E	✓	✓	✓	✓	22	22RE	✓	✓	✓	✓	2,400	2K4E	✓
1.1	1R1E	✓	✓	✓	✓	24	24RE	✓	✓	✓	✓	2,500	2K5E	✓
1.2	1R2E	✓	✓	✓	✓	25	25RE	✓	✓	✓	✓	2,700	2K7E	✓
1.3	1R3E	✓	✓	✓	✓	27	27RE	✓	✓	✓	✓	2,750	2K75E	✓
1.5	1R5E	✓	✓	✓	✓	30	30RE	✓	✓	✓	✓	3,000	3K0E	✓
1.6	1R6E	✓	✓	✓	✓	33	33RE	✓	✓	✓	✓	3,300	3K3E	✓
1.8	1R8E	✓	✓	✓	✓	35	35RE	✓	✓	✓	✓	3,500	3K5E	✓
2	2R0E	✓	✓	✓	✓	36	36RE	✓	✓	✓	✓	3,600	3K6E	✓
2.2	2R2E	✓	✓	✓	✓	39	39RE	✓	✓	✓	✓	3,900	3K9E	✓
2.4	2R4E	✓	✓	✓	✓	40	40RE	✓	✓	✓	✓	4,000	4K0E	✓
2.7	2R7E	✓	✓	✓	✓	43	43RE	✓	✓	✓	✓	4,300	4K3E	✓
3	3R0E	✓	✓	✓	✓	47	47RE	✓	✓	✓	✓	4,500	4K5E	✓
3.3	3R3E	✓	✓	✓	✓	50	50RE	✓	✓	✓	✓	4,700	4K7E	✓
3.6	3R6E	✓	✓	✓	✓	51	51RE	✓	✓	✓	✓	5,000	5K0E	✓
3.9	3R9E	✓	✓	✓	✓	56	56RE	✓	✓	✓	✓	5,100	5K1E	✓
4	4R0E	✓	✓	✓	✓	62	62RE	✓	✓	✓	✓	5,600	5K6E	✓
4.3	4R3E	✓	✓	✓	✓	68	68RE	✓	✓	✓	✓	6,000	6K0E	✓
4.7	4R7E	✓	✓	✓	✓	75	75RE	✓	✓	✓	✓	6,200	6K2E	✓
5	5R0E	✓	✓	✓	✓	82	82RE	✓	✓	✓	✓	6,800	6K8E	✓
5.1	5R1E	✓	✓	✓	✓	91	91RE	✓	✓	✓	✓	7,000	7K0E	✓
5.6	5R6E	✓	✓	✓	✓	100	100E	✓	✓	✓	✓	7,500	7K5E	✓
6.2	6R2E	✓	✓	✓	✓	110	110E	✓	✓	✓	✓	8,000	8K0E	✓
6.8	6R8E	✓	✓	✓	✓	120	120E	✓	✓	✓	✓	8,200	8K2E	✓
7.5	7R5E	✓	✓	✓	✓	125	125E	✓	✓	✓	✓	8,500	8K5E	✓
8.2	8R2E	✓	✓	✓	✓	130	130E	✓	✓	✓	✓	9,000	9K0E	✓
9.1	9R1E	✓	✓	✓	✓	150	150E	✓	✓	✓	✓	9,100	9K1E	✓
10	10RE	✓	✓	✓	✓	160	160E	✓	✓	✓	✓	10,000	10KE	✓
11	11RE	✓	✓	✓	✓	180	180E	✓	✓	✓	✓	11,000	11KE	✓
12	12RE	✓	✓	✓	✓	200	200E	✓	✓	✓	✓	12,000	12KE	✓
13	13RE	✓	✓	✓	✓	220	220E	✓	✓	✓	✓	12,500	12K5E	✓
15	15RE	✓	✓	✓	✓	225	225E	✓	✓	✓	✓	13,000	13KE	✓
16	16RE	✓	✓	✓	✓	240	240E	✓	✓	✓	✓	13,500	13K5E	✓
18	18RE	✓	✓	✓	✓	250	250E	✓	✓	✓	✓	15,000	15KE	✓

✓ = Standard values; check availability using the world-wide inventory search at www.ohmite.com

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

B5: 6.8K-20KΩ
B8: 12.5K-25KΩ
B12: 30K-51KΩ
B20: 22.5K-100KΩ



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