

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.

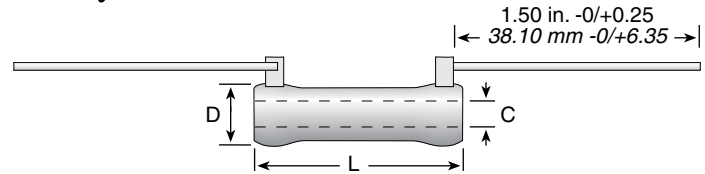
Temperature coefficient: 5Ω and under: ±400 ppm/°C
Above 5Ω: ±260 ppm/°C

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%

See web-site for custom core info

STANDARD PART NUMBERS FOR 200 SERIES

Wattage				Wattage				Wattage				Wattage				Wattage			
Ohmic value	Part No.	Prefix	Suffix	Ohmic value	Part No.	Prefix	Suffix	Ohmic value	Part No.	Prefix	Suffix	Ohmic value	Part No.	Prefix	Suffix	Ohmic value	Part No.	Prefix	Suffix
0.5	R50E			20	20RE			270	270E			2,250	2K25E			16,000	16KE		
1	1R0E			22	22RE			300	300E			2,400	2K4E			17,500	17K5E		
1.1	1R1E			24	24RE			330	330E			2,500	2K5E			18,000	18KE		
1.2	1R2E			25	25RE			350	350E			2,700	2K7E			20,000	20KE		
1.3	1R3E			27	27RE			360	360E			2,750	2K75E			22,500	22K5E		
1.5	1R5E			30	30RE			390	390E			3,000	3K0E			25,000	25KE		
1.6	1R6E			33	33RE			400	400E			3,300	3K3E			30,000	30KE		
1.8	1R8E			35	35RE			430	430E			3,500	3K5E			35,000	35KE		
2	2R0E			36	36RE			450	450E			3,600	3K6E			40,000	40KE		
2.2	2R2E			39	39RE			470	470E			3,900	3K9E			45,000	45KE		
2.4	2R4E			40	40RE			500	500E			4,000	4K0E			50,000	50KE		
2.7	2R7E			43	43RE			510	510E			4,300	4K3E			55,000	55KE		
3	3R0E			47	47RE			560	560E			4,500	4K5E			60,000	60KE		
3.3	3R3E			50	50RE			600	600E			4,700	4K7E			65,000	65KE		
3.6	3R6E			51	51RE			620	620E			5,000	5K0E			70,000	70KE		
3.9	3R9E			56	56RE			650	650E			5,100	5K1E			75,000	75KE		
4	4R0E			62	62RE			680	680E			5,600	5K6E			80,000	80KE		
4.3	4R3E			68	68RE			700	700E			6,000	6K0E			85,000	85KE		
4.7	4R7E			75	75RE			750	750E			6,200	6K2E			90,000	90KE		
5	5R0E			82	82RE			800	800E			6,800	6K8E			95,000	95KE		
5.1	5R1E			91	91RE			820	820E			7,000	7K0E			100,000	100KE		
5.6	5R6E			100	100E			900	900E			7,500	7K5E			✓ = Standard values; check availability using the world-wide inventory search at www.ohmite.com			
6.2	6R2E			110	110E			910	910E			8,000	8K0E						
6.8	6R8E			120	120E			1,000	1K0E			8,200	8K2E						
7.5	7R5E			125	125E			1,100	1K1E			8,500	8K5E						
8.2	8R2E			130	130E			1,200	1K2E			9,000	9K0E			These values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling:			
9.1	9R1E			150	150E			1,250	1K25E			9,100	9K1E						
10	10RE			160	160E			1,300	1K3E			10,000	10KE						
11	11RE			180	180E			1,500	1K5E			11,000	11KE						
12	12RE			200	200E			1,600	1K6E			12,000	12KE			B5: 6.8K-20KΩ			
13	13RE			220	220E			1,750	1K75E			12,500	12K5E			B8: 12.5K-25KΩ			
15	15RE			225	225E			1,800	1K8E			13,000	13KE			B12: 30K-51KΩ			
16	16RE			240	240E			2,000	2K0E			13,500	13K5E			B20: 22.5K-100KΩ			
18	18RE			250	250E			2,200	2K2E			15,000	15KE						



ООО «НИОКРсистемс» - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Наша компания это:

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование
- Работаем по 275 ФЗ