

200 Series

Brown Devil® Vitreous Enamel Power



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.

SERIES SPECIFICATIONS

Series	Wattage	Ohms	Lead Gauge	Max. Voltage*
B5	5.25	0.1-20K	20	187
B8	8.0	0.03-25K	18	250
B12	12.0	0.08-51K	18	625
B20	20.0	0.1-100K	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

CHARACTERISTICS

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
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
Max. amps	To calculate, use the formula $\sqrt{P/R}$

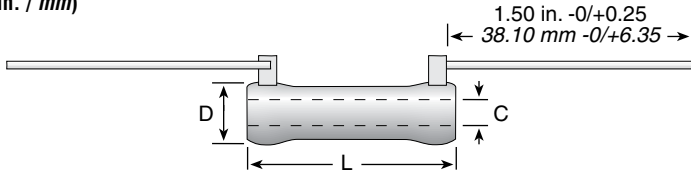
(continued)

200 Series

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DIMENSIONS

(in. / mm)



Series	Wattage	L	D	C	Lead Gauge
B5	5.25	0.625 / 15.88	0.250 / 6.35	0.135 / 3.43	20
B8	8.0	1.000 / 25.40	0.313 / 7.94	0.188 / 4.76	18
B12	12.0	1.750 / 44.45	0.313 / 7.94	0.188 / 4.76	18
B20	20.0	2.000 / 50.80	0.438 / 11.11	0.250 / 6.35	18

ORDERING INFORMATION

Standard Values

Ohmic value		Wattage				Ohmic value		Wattage				Ohmic value		Wattage				Ohmic value		Wattage																																	
Part No.	Prefix	5.25	8	12	20	Part No.	Prefix	5.25	8	12	20	Part No.	Prefix	5.25	8	12	20	Part No.	Prefix	5.25	8	12	20	Part No.	Prefix	5.25	8	12	20	Part No.	Prefix	5.25	8	12	20																		
0.5	R50E					20	20RE					270	270E					2,250	2K25E					16,000	16KE					17,500	17K5E					18,000	18KE					20,000	20KE					22,500	22K5E				
1	1R0E					22	22RE					300	300E					2,400	2K4E					25,000	25KE					30,000	30KE					35,000	35KE					40,000	40KE					45,000	45KE				
1.1	1R1E					24	24RE					330	330E					2,500	2K5E					30,000	30KE					35,000	35KE					40,000	40KE					45,000	45KE										
1.2	1R2E					25	25RE					350	350E					2,700	2K7E					35,000	35KE					40,000	40KE					45,000	45KE					50,000	50KE										
1.3	1R3E					27	27RE					360	360E					2,750	2K75E					40,000	40KE					45,000	45KE					50,000	50KE					55,000	55KE										
1.5	1R5E					30	30RE					390	390E					3,000	3K0E					50,000	50KE					55,000	55KE					60,000	60KE					65,000	65KE										
1.6	1R6E					33	33RE					400	400E					3,300	3K3E					60,000	60KE					65,000	65KE					70,000	70KE					75,000	75KE										
1.8	1R8E					35	35RE					430	430E					3,500	3K5E					75,000	75KE					80,000	80KE					85,000	85KE					90,000	90KE										
2	2R0E					36	36RE					450	450E					3,600	3K6E					85,000	85KE					90,000	90KE					95,000	95KE					100,000	100KE										
2.2	2R2E					39	39RE					470	470E					3,900	3K9E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
2.4	2R4E					40	40RE					500	500E					4,000	4K0E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
2.7	2R7E					43	43RE					510	510E					4,300	4K3E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
3	3R0E					47	47RE					560	560E					4,500	4K5E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
3.3	3R3E					50	50RE					600	600E					4,700	4K7E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
3.6	3R6E					51	51RE					620	620E					5,000	5K0E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
3.9	3R9E					56	56RE					650	650E					5,100	5K1E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
4	4R0E					62	62RE					680	680E					5,600	5K6E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
4.3	4R3E					68	68RE					700	700E					6,000	6K0E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
4.7	4R7E					75	75RE					750	750E					6,200	6K2E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
5	5R0E					82	82RE					800	800E					6,800	6K8E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
5.1	5R1E					91	91RE					820	820E					7,000	7K0E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
5.6	5R6E					100	100E					900	900E					7,500	7K5E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
6.2	6R2E					110	110E					910	910E					8,000	8K0E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
6.8	6R8E					120	120E					1,000	1K0E					8,200	8K2E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
7.5	7R5E					125	125E					1,100	1K1E					8,500	8K5E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
8.2	8R2E					130	130E					1,200	1K2E					9,000	9K0E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
9.1	9R1E					150	150E					1,250	1K25E					9,100	9K1E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
10	10RE					160	160E					1,300	1K3E					10,000	10KE					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
11	11RE					180	180E					1,500	1K5E					11,000	11KE					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
12	12RE					200	200E					1,600	1K6E					12,000	12KE					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
13	13RE					220	220E					1,750	1K75E					12,500	12K5E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
15	15RE					225	225E					1,800	1K8E					13,000	13KE					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
16	16RE					240	240E					2,000	2K0E					13,500	13K5E					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										
18	18RE					250	250E					2,200	2K2E					15,000	15KE					100,000	100KE					100,000	100KE					100,000	100KE					100,000	100KE										

✓ = Standard values; check availability 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

Coating
 Blank = Vitreous
 C = Centohm
 S = Silicone

Non-Inductive Winding
 Optional (blank = std. winding)

RoHS Compliant

B 8 N J 5 R 0 E

Series

Tolerance
 F = 1%
 H = 3%
 J = 5%
 K = 10%

Ohms
 1R0 = 1Ω
 250 = 250Ω
 1K0 = 1,000Ω
 25K = 25,000Ω
 25K5 = 25,500Ω

Made-to-order Parts

Non-Inductive Winding
 Optional (blank = std. winding)

Core Diameter
 See "Core and Terminal Selection"

RoHS Compliant

2 0 0 N 8 D 5 R 0 0 0 J E

Coating
 200 = Vitreous
 400 = Silicone
 Ceramic

Wattage
 3
 5.25
 8
 12
 20

Ohms
 R500 = 0.500Ω
 1R00 = 1Ω
 250R = 250Ω
 1K00 = 1,000Ω
 25K0 = 25,000Ω
 25K5 = 25,500Ω

Tolerance
 F = 1%
 H = 3%
 J = 5%
 K = 10%

See website for custom core info

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