210 Series

Dividohm® Vitreous Enamel Adjustable Power



FEATURES

- Terminals suitable for soldering or bolt connection.
- Adjustable lug supplied.
- High wattage applications.
- All-welded construction.
- · Rugged lead free vitreous enamel coating.
- Flame resistant coating.
- Thumb-screw-adjustable lug available (Part No. 2160) for 1.125" core resistors.
- RoHS compliant product available. Add "E" suffix to part number to specify.

			Di	mensions (in. / m	<i>m</i>)	Core		Standard
Series	Wattage	Ohms	L	D	Ć	Code	Voltage	Terminal
D12	12	1.0-10K	1.75 / 44.4	0.313 / <i>7.94</i>	0.188 / <i>4.76</i>	D	565	57
D25	25	1.0-25K	2.0 / 50.8	0.562 / 14.3	0.313 / <i>7.94</i>	K	625	40
D50	50	1.0-100K	4.0 / 101.6	0.562 / 14.3	0.313 / <i>7.94</i>	K	1625	40
D75	75	1.0-100K	6.0 / 152.4	0.562 / 14.3	0.313 / <i>7.94</i>	K	2625	40
D100	100	1.0-100K	6.5 / <i>165.1</i>	0.750 / <i>19.1</i>	0.50 / 12.7	М	2845	40
D175	175	1.0-100K	8.5 / <i>215.9</i>	1.125 / <i>28.6</i>	0.75 / 19.1	Р	3595	46
D225	225	1.0-100K	10.5 / <i>266.7</i>	1.125 / <i>28.6</i>	0.75 / <i>19.1</i>	Р	4595	46
D500	500	1.5-15K	12.0 / <i>304.8</i>	2.50 / <i>63.5</i>	1.75 / 44.5	S	4970	45
D1000	1000	3.0-27.7K	20.0 / 508.0	2.50 / <i>63.5</i>	1.75 / <i>44.5</i>	S	8900	45

RoHS

Other sizes available; contact Ohmite. Also available in low cost Centohm or Silicone coating; contact Ohmite.

Choose Ohmite's 210 Type adjustable resistors for applications requiring settings at different resistance values. These wirewound resistors are equipped with an adjustable lug, making them ideal for adjusting circuits, obtaining odd resistance values and setting equipment to meet various line voltages. 210 Type resistors feature a hollow core to permit secure fastening with spring-type clips or thru bolts with washers. They also offer the durability of lead free vitreous enamel coating and all-welded construction. Mounting brackets not included with resistors.

SPECIFICATIONS

Adjustability is 10% to 90% of full value. Wattage is proportional to this adjusted resistance value. Material

Coating: Lead free vitreous enamel.

Core: Tubular ceramic.



STANDARD PART NUMBERS FOR 210 SERIES										
Wattage 👝	Wattage 👝 👔	Wattage								
ue 12 50 75 100 1100 500 11000	ue 25 55 75 75 75 75 50 1000 1000	ue 25 50 100 175 225 225								
Part No.	Part No. 22 22 23 23 23 23 23 23 23 23 23 23 23	en Part No. 22 23 23 23 23 23 23 23 23 23 23 23 23								
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1.0—1ROE 🗸 🗸 🗸 🗸 🗸	150 — 150E 🖌 🖌 🖌	3,000 — 3K0E 🖌 🖌 🖌								
2 -2ROE 🗸 🖌 🗸 🗸 🗸 🗸	200 — 200E 🖌 🖌 🖌 🖌	4,000 — 4K0E 🖌								
3 — 3ROE 🗸 🗸 🗸 🗸 🗸	250 -250E 🗸 🗸 🗸 🗸 🗸	5,000 -5K0E 🗸 🖌 🖌 🗸 🗸								
4 — 4ROE 🖌 🖌 🗸	300 — 300E 🖌 🖌 🖌 🖌	6,000 — 6K0E 🖌								
5 — 5ROE 🗸 🗸 🗸 🗸 🗸 🗸 🗸	400 — 400E 🖌 🖌 🖌 🗸	7,000 — 7K0E 🖌 🖌								
7.5 — 7R5E 🖌 🖌	500	7,500 — 7K5E 🖌 🖌 🖌								
10	750 — 750E 🗸 🖌 🗸	10,000								
15 — 15RE 🗸 🖌 🗸	800 — 800E 🗸 🗸	12,000 — 12KE								
20 — 20RE 🖌 🖌		15,000 — 15KE 🗸 🗸								
25 — 25RE 🗸 🖌 🗸 🗸 🗸 🗸	1,250 — 1K25E 🗸 🖌	20,000 — 20KE 🗸 🗸 🗸								
50 — 50RE V V V V V V	1,500 —1K5E 🗸 🗸 🗸 🗸 🗸	25,000 —25KE 🖌 🖌								
75 — 75RE 🖌 🖌 🖌	2,000 —2K0E 🖌 🖌 🖌 🖌	50,000 — 50KE 🖌 🖌								
100 — 100E V V V V V V	2,500 —2K5E 🗸 🖌 🗸 🗸 🗸	100,000 -100KE 🖌 🖌 🗸								
 Standard values; check availability using the worldwide inventory search at www.ohmite.com 50KΩ and 100KΩ resistance values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling. 										

- Terminals: Solder coated radial lug. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu
- Adjustable terminal: Nickel plated steel. (Screwdriver type adjustable lug supplied standard. Other types, including silver contact units, available.)

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

Electrical

Tolerance: ±10% (K)

- Power rating: Based on 25°C free air rating. The stated wattage rating applies only when the entire resistance is in the circuit. Setting the lug at an intermediate point reduces the wattage rating by approximately the same proportion. Example: If the lug is set at half resistance, the wattage is reduced by approximately one-half.
- Overload: 10 times rated wattage for 5 seconds.
- Temperature coefficient: ±260 ppm/°C
- Dielectric withstanding voltage: 1000 VAC: 12 to 100 watt rating. 3000 VAC: 175 and 225 watt rating (measured from terminal to mounting bracket)
- To calculate max. amps: use the formula $\sqrt{P/R}$.

See page 36 for mounting hardware

derating

necessary for

ratings higher

than 100W.

value

4,500Ω

9,000Ω

20,000Ω

35,000Ω

50,000Ω