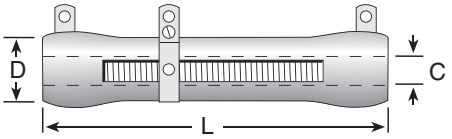
210 Series

Dividohm® Vitreous Enamel Adjustable Power Resistors



Series	Wattage	Ohms	Dimensions (in. / *mm*) Length	Diam.	Core	Voltage
D12	12	1.0-10K	1.75 / *44.4*	0.313 / *7.94*	0.188 / *4.76*	565
D25	25	1.0-25K	2.0 / *50.8*	0.562 / *14.3*	0.313 / *7.94*	625
D50	50	1.0-100K	4.0 / *101.6*	0.562 / *14.3*	0.313 / *7.94*	1625
D75	75	1.0-100K	6.0 / *152.4*	0.562 / *14.3*	0.313 / *7.94*	2625
D100	100	1.0-100K	6.5 / *165.1*	0.750 / *19.1*	0.50 / *12.7*	2845
D175	175	1.0-100K	8.5 / *215.9*	1.125 / *28.6*	0.75 / *19.1*	3595
D225	225	1.0-100K	10.5 / *266.7*	1.125 / *28.6*	0.75 / *19.1*	4595
D500	500	1.5-15K	12.0 / *304.8*	2.50 / *63.5*	1.75 / *44.5*	4970
D1000	1000	3.0-27.7K	20.0 / *508.0*	2.50 / *63.5*	1.75 / *44.5*	8900

Other sizes available. Consult factory.
Also available in low cost Centohm coating. Consult Factory.

Power limitations for high resistance values: When resistance exceeds the resistance values listed at right, derate the Power Rating by 25% to improve reliability:

Power rating	Resistance value
12W	4,500Ω
25W	9,000Ω
50W	20,000Ω
75W	35,000Ω
100W	50,000Ω

No power derating necessary for ratings higher than 100 watts.

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.

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 Jan. 2006 Add "E" suffix to part number to specify.

SPECIFICATIONS

Material

Coating: Lead free vitreous enamel.

Core: Tubular ceramic.

Terminals: Solder coated radial lug.

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 the approximate 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 34 for mounting hardware

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohmic value	Part No. Prefix ➤ Suffix ▼	Wattage 12 D12K	25 D25K	50 D50K	75 D75K	100 D100K	175 D175K	225 D225K	500 D500K	1000 D1000K
1.0	1R0	✔	✣	✣	✔	✣	✣	✣		
2	2R0	✣	✣	✣	✔	✣	✔	✣		
3	3R0	✣	✔	✔	✔	✣	✔	✣		
4	4R0			✔	✣	✣	✔	✣		
5	5R0	✣	✔	✣	✔	✣	✣	✣	✔	✔
7.5	7R5	✔	✔							
10	10R	✣	✣	✣	✔	✣	✣	✣		
15	15R	✔	✣		✣					
20	20R	✔	✔							
25	25R	✣	✣	✣	✣	✣	✣	✣		
50	50R	✣	✣	✣	✔	✣	✣	✣		
75	75R	✔	✔	✔						
100	100	✣	✔	✣	✣	✣	✣	✣		
150	150	✔	✔	✣						
200	200	✔	✔	✔	✔					
250	250	✔	✣	✔	✔	✣	✣	✣		
300	300	✔	✔	✣	✣					
350	350	✣								
400	400	✔	✔	✔	✔					
500	500	✔	✔	✣	✔	✣	✔	✣	✔	✔
600	600	✣								
750	750	✔	✔	✣	✣					
800	800	✣	✔	✔	✣					
1,000	1K0	✔	✣	✣	✔	✣	✔	✣	✔	✔
1,250	1K25	✔	✔	✣	✣					
1,500	1K5	✔	✣	✔	✔	✔	✔	✔		
2,000	2K0	✔	✔	✔	✔					
2,250	2K25	✣	✣	✣	✣					
2,500	2K5	✔	✔	✔	✣	✔	✔	✣		
3,000	3K0	✣	✔	✔	✣					
3,500	3K5	✣	✣	✣	✣					
4,000	4K0	✔	✣	✣	✣					
4,500	4K5	✣	✣	✣	✣					
5,000	5K0	✣	✔	✣	✣	✣	✔	✔		
6,000	6K0	✣	✔	✣	✣					
7,000	7K0	✔	✣	✣	✣					
7,500	7K5	✔	✔	✔	✣					
8,000	8K0	✣	✣	✣	✣					
8,500	8K5	✣								
9,000	9K0	✣	✣	✣	✣					
10,000	10K	✔	✔	✔	✔	✔	✔			
12,000	12K		✣	✣	✣					
15,000	15K		✔	✔	✣	✣	✣			
20,000	20K		✔	✔	✣	✣	✣			
25,000	25K		✔	✔	✣	✣	✣			
30,000	30K			✣	✣	✣	✣			
35,000	35K				✣					
40,000	40K			✣	✣	✣	✣			
45,000	45K				✣					
50,000	50K			✔	✣	✔	✣			
60,000	60K			✣	✣					
75,000	75K					✣	✣			
80,000	80K			✣	✣					
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.