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
- Additional adjustable lugs available
- RoHS compliant product available. Add "E" suffix to part number to specify



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 equip ment 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.

SERIES SPECIFICATIONS

| Series | Wattage | Ohms | Core Code | Voltage | Standard Terminal |
|--------|---------|-----------|-----------|---------|-------------------|
| D12 | 12 | 1.0-10K | D | 565 | 57 |
| D25 | 25 | 1.0-25K | K | 625 | 40 |
| D50 | 50 | 1.0-100K | K | 1625 | 40 |
| D75 | 75 | 1.0-100K | K | 2625 | 40 |
| D100 | 100 | 1.0-100K | М | 2845 | 40 |
| D175 | 175 | 1.0-100K | Р | 3595 | 46 |
| D225 | 225 | 1.0-100K | Р | 4595 | 46 |
| D500 | 500 | 1.5-15K | S | 4970 | 45 |
| D1000 | 1000 | 3.0-27.7K | S | 8900 | 45 |

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

CHARACTERISTICS

| | CHARACTERISTICS | | | | | | | |
|--------------------------------------|--|--|--|---|--|--|--|--|
| Adjustability | 10% to 90% of full value. Wattage is proportional to this adjusted resistance value. | | | | | | | |
| Coating | Lead free vitreous enamel. Large models (500 watts and up) are supplied in Silicone Ceramic. Also available in low-cost Centohm coating; Consult factory. | | | | | | | |
| Core | Tubular ceramic. | | | | | | | |
| Terminals | Solder coated radial lug. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu | Power limitations for high resistance values: When resistance exceeds the resistance values listed below, derate the Power Rating by | | | | | | |
| 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. | 25% to improve reliability: | | | | | | |
| Tolerance | ±10% (K) | | Resistance | No power | | | | |
| 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 approx. one-half. | rating 12W 25W 50W 75W | value 4,500Ω 9,000Ω 20,000Ω 35,000Ω | derating neces- sary for ratings higher than 100W. | | | | |
| Overload | 10 times rated wattage for 5 seconds. | 100W | 50,000Ω | | | | | |
| Temperature coef- ficient | ±260 ppm/°C | | | | | | | |
| Dielectric withstand- ing voltage | 1000 VAC: 12 to 100 watt rating. 3000 VAC: 175 and 225 watt rating (measured from terminal to mounting bracket) | | | | | | | |

To calculate, use the formula √P/R.

see https://www.ohmite.com/assets/docs/hardware_resistor.pdf

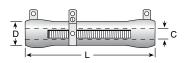
Max. amps

Mounting Hardware

210 Series

Dividohm® Vitreous Enamel Adjustable Power

(in. / mm)

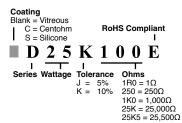


DIMENSIONS

| Series | Wattage | L | D | C | Core Code* | Std. Term.** |
|--------|---------|--------------|--------------|--------------|------------|--------------|
| D12 | 12 | 1.75 / 44.4 | 0.313 / 7.94 | 0.188 / 4.76 | D | 57 |
| D25 | 25 | 2.0 / 50.8 | 0.562 / 14.3 | 0.313 / 7.94 | K | 40 |
| D50 | 50 | 4.0 / 101.6 | 0.562 / 14.3 | 0.313 / 7.94 | K | 40 |
| D75 | 75 | 6.0 / 152.4 | 0.562 / 14.3 | 0.313 / 7.94 | K | 40 |
| D100 | 100 | 6.5 / 165.1 | 0.750 / 19.1 | 0.50 / 12.7 | М | 40 |
| D175 | 175 | 8.5 / 215.9 | 1.125 / 28.6 | 0.75 / 19.1 | Р | 46 |
| D225 | 225 | 10.5 / 266.7 | 1.125 / 28.6 | 0.75 / 19.1 | Р | 46 |
| D500 | 500 | 12.0 / 304.8 | 2.50 / 63.5 | 1.75 / 44.5 | S | 45 |
| D1000 | 1000 | 20.0 / 508.0 | 2.50 / 63.5 | 1.75 / 44.5 | S | 45 |

^{*} https://www.ohmite.com/assets/docs/200-210-270-custom.pdf

ORDERING INFORMATION



Made-to-order Parts

 Core Diameter See "Core and Terminal Selection"
 Terminal Type See "Resistor Terminals for Tubular Cores"
 RoHS Compliant

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Coating Wattage 210 = Vitreous 410 = Silicone Ceramic 610 = Centohm

See 270 series custom core and terminal info

Standard Values

| | Wattage S | | | | | | | | | Wattage | | | | | | | | | | | | 1 | | | | | | Wattage | | | | |
|------------------------------|-----------|------|------|------|-------|-------|-------|-------|--------|------------|----------------------------|------|------|------|------|-------|-------|-------|-------|--------|-------------|----------------------------|------|------|------|------|-------|---------|-------|--|--|--|
| 9 | 12 | 25 | 50 | 75 | 5 | 175 | 225 | 500 | -1000 | 9 | | 12 | 22 | 20 | 72 | 10 | 175 | 225 | 200 | 1000 | e | | 12 | 22 | 20 | 72 | 10 | 175 | 225 | | | |
| Part No. Prefix > Suffix Y | D12K | D25K | D50K | D75K | D100K | D175K | D225K | D500K | D1000K | Ohmic valu | Part No. Prefix ➤ Suffix ▼ | D12K | D25K | D50K | D75K | D100K | D175K | D225K | D500K | D1000K | Ohmic value | Part No. Prefix ➤ Suffix ¥ | D12K | D25K | D50K | D75K | D100K | D175K | D225K | | | |
| 1.0 —1R0E | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | | 150 | —150E | ~ | ~ | ~ | | | | | | | 3,000 | 3K0E | ~ | ~ | ~ | | | | _ | | | |
| 2 —2R0E | ~ | ~ | • | ~ | ~ | • | ~ | | | 200 | 200E | ~ | ~ | ~ | ~ | | | | | | 4,000 | 4K0E | ~ | | | | | | | | | |
| 3 — 3R0E | | ~ | • | ~ | ~ | • | ~ | | | 250 | 250E | ~ | ~ | ~ | ~ | ~ | • | ~ | | | 5,000 | ——5K0E | ~ | • | ~ | | ~ | • | ~ | | | |
| 4 ——4R0E | | | • | | ~ | • | ~ | | | 300 | 300E | ~ | ~ | ~ | ~ | | | | | | 6,000 | 6K0E | | • | | | | | | | | |
| 5 — 5R0E | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | 400 | 400E | ~ | ~ | ~ | ~ | | | | | | 7,000 | ——7K0E | ~ | 1 | | | | | | | | |
| 7.5 — 7R5E | ~ | ~ | | | | | | | | 500 | —500E | ~ | ~ | ~ | ~ | ~ | • | ~ | ~ | ~ | 7,500 | ——7K5E | ~ | • | ~ | | | | | | | |
| 10 —10RE | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | | 750 | 750E | ~ | ~ | ~ | ~ | | | | | | 10,000 | ——10KE | ~ | ~ | ~ | ~ | ~ | • | | | | |
| 15 ——15RE | ~ | ~ | | ~ | | | | | | 800 | 800E | | ~ | ~ | | | | | | | 12,000 | ——12KE | | | | | | | | | | |
| 20 ——20RE | ~ | ~ | | | | | | | | 1,000 | ——1K0E | ~ | ~ | ~ | ~ | ~ | • | ~ | ~ | ~ | 15,000 | ——15KE | | ~ | ~ | | | | | | | |
| 25 — 25RE | ~ | ~ | ~ | ~ | ~ | ~ | ~ | | | 1,250 | ——1K25E | ~ | ~ | | | | | | | | 20,000 | 20KE | | ~ | ~ | ~ | | | | | | |
| 50 — 50RE | ~ | ~ | 1 | ~ | ~ | 1 | ~ | | | 1,500 | ——1K5E | ~ | 1 | ~ | 1 | ~ | ~ | ~ | | | 25,000 | 25KE | | ~ | ~ | | | | | | | |
| 75 — 75RE | ~ | ~ | • | | | | | | | 2,000 | 2K0E | ~ | ~ | ~ | ~ | | | | | | 50,000 | 50KE | | | ~ | | ~ | | | | | |
| 100 — 100E | • | ~ | • | • | ~ | • | • | | | 2,500 | 2K5E | ~ | ~ | • | | ~ | • | • | | | 100,000 | —100KE | | | • | | • | • | | | | |

= Standard values; check availability at www.ohmite.com $50 K\Omega$ and $100 K\Omega$ resistance values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.

^{**} https://www.ohmite.com/assets/docs/terminals.pdf

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L12NJ20R