## 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 | M | 2845 | 40 |
| D175 | 175 | 1.0-100K | P | 3595 | 46 |
| D225 | 225 | 1.0-100K | P | 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

| Adjustability | $10 \%$ to $90 \%$ of full value. Wattage is proportional to this adjusted <br> resistance value. |
| ---: | :--- |
| Coating | Lead free vitreous enamel. Large models (500 watts and up) are <br> supplied in Silicone Ceramic. Also available in low-cost Centohm <br> coating; Consult factory. |
| Core | Tubular ceramic. |
| Terminals | Solder coated radial lug. RoHS solder composition is $96 \%$ Sn, <br> $3.5 \% ~ A g, ~$ $5^{2} \% \mathrm{Cu}$ |


| Power limitations for high resistance values: When resistance exceeds the resistance values listed below, derate the Power Rating by $25 \%$ to improve reliability: |  |  |
| :---: | :---: | :---: |
| Power rating | Resistance value | No power derating neces- |
| 12W | 4,500 | sary for ratings |
| 25W | 9,000 | higher than |
| 50W | 20,000 ${ }^{\text {a }}$ | 100W. |
| 75W | 35,000 |  |
| 100W | 50,000 |  |

## 르 므를

## Dividohm $®$ Vitreous Enamel Adjustable Power

| －1MENSIONS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| （in．／mm） |  | Series | Wattage | L | D | C | Core Code | Standard Terminal |
|  |  | D12 | 12 | 1.75 ／ 44.4 | $0.313 / 7.94$ | $0.188 / 4.76$ | D | 57 |
|  | 0 0 | D25 | 25 | 2.0 ／ 50.8 | 0.562 ／ 14.3 | 0.313 ／ 7.94 | K | 40 |
|  | $\uparrow$ ¢ | D50 | 50 | 4.0 ／ 101.6 | 0.562 ／ 14.3 | 0.313 ／ 7.94 | K | 40 |
|  | ${ }_{\square}^{D--\square}$ | D75 | 75 | 6.0 ／ 152.4 | 0.562 ／ 14.3 | 0.313 ／ 7.94 | K | 40 |
|  |  | D100 | 100 | 6.5 ／ 165.1 | $0.750 / 19.1$ | $0.50 / 12.7$ | M | 40 |
|  |  | D175 | 175 | 8.5 ／ 215.9 | $1.125 / 28.6$ | 0.75 ／ 19.1 | P | 46 |
|  |  | D225 | 225 | 10.5 ／ 266.7 | $1.125 / 28.6$ | 0.75 ／ 19.1 | P | 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 |

## ORDERING INFORMATION

Made－to－order Parts


| Coating |  |
| ---: | :--- |
| Blank | $=$ Vitreous |
| $C$ | RoHS Compliant |
| $S$ | $=$ Silicone |

## D 25 K 100 E

Series Watage Tolerance orms
$\begin{array}{ll}J=5 \% & 1 R 0=1 \Omega \\ K=10 \% & 250=250 \Omega\end{array}$
$1 K 0=1,000 \Omega$
$1 \mathrm{KK}=25,000 \Omega$
$25 \mathrm{~K} 5=25,500 \Omega$

Standard Values

|  |  |  |  |  |  | tag |  |  |  |  | $\begin{aligned} & \text { OU } \\ & \text { N } \\ & \text { O} \\ & \text { E } \\ & \text { O } \end{aligned}$ | Wattage |  |  |  |  |  |  |  |  |  |  |  | Wattage |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | $\stackrel{\sim}{\sim}$ |  |  | 음 |  |  |  | ん | ¢ |  |  |  |  |  |  |  |  | พ | L | ก |  |  | $\stackrel{\sim}{\sim}$ | ํ |
|  | Part No． Prefix $>$ Suffix $\nabla$ | $\frac{\stackrel{\rightharpoonup}{N}}{\square}$ | 芯 | 号 |  | 흠 | $\stackrel{\text { ᄂ }}{\stackrel{\rightharpoonup}{N}}$ | N N్N N | $\begin{aligned} & \text { 이 } \\ & \text { 另 } \end{aligned}$ | $\begin{aligned} & \text { 흥 } \\ & \hline \text { } \end{aligned}$ |  | Part No． Prefix $>$ Suffix $\boldsymbol{V}$ | $\frac{\grave{1}}{\stackrel{1}{\square}}$ | 芯 | 吕 |  | 음 | $\stackrel{\text { Lे }}{\stackrel{\rightharpoonup}{5}}$ | $\begin{gathered} \text { ָNㅜ } \end{gathered}$ | $\begin{aligned} & \text { oे } \\ & \text { in } \end{aligned}$ |  | $\begin{aligned} & \overline{5} \\ & \text { 읕 } \\ & \text { 응 } \end{aligned}$ | Part No． <br> Prefix $>$ <br> Suffix $\nabla$ | $\frac{\grave{N}}{\underset{\sim}{N}}$ | 芯 | 흠 | $\stackrel{\stackrel{1}{5}}{\stackrel{\rightharpoonup}{0}}$ | 흥 |  | へ్ゝ |
| 1.0 | －－1R0E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 150 | －150E | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  | 3，000 | －3K0E | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
| 2 | 2ROE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 200 | －200E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  | 4，000 | －4K0E | $\checkmark$ |  |  |  |  |  |  |
| 3 | －3ROE |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 250 | －250E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 5，000 | － 5 KOE | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| 4 | 4ROE |  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 300 | －300E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  | 6，000 | －6K0E |  | $\checkmark$ |  |  |  |  |  |
| 5 | 5ROE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 400 | －400E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  | 7，000 | －7K0E | $\checkmark$ | $\checkmark$ |  |  |  |  |  |
|  | －7R5E | $\checkmark$ | $\nu$ |  |  |  |  |  |  |  | 500 | 500E | $\checkmark$ | $\nu$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 7，500 | －7K5E | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |
| 10 | －10RE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 750 | －750E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  | 10，000 | －10KE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| 15 | －15RE | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  | 800 | －800E |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  | 12，000 | －12KE |  |  |  |  |  |  |  |
| 20 | －20RE | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |  | 1，000 | － 1 KOE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 15，000 | －15KE |  | $\checkmark$ | $\checkmark$ |  |  |  |  |
| 25 | 25RE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 1，250 | －1K25E | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |  | 20，000 | 20KE |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| 50 | 50RE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 1，500 | －1K5E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 25，000 | －25KE |  | $\checkmark$ | $\checkmark$ |  |  |  |  |
| 75 | －75RE | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  | 2，000 | －2KOE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  | 50，000 | 50KE |  |  | $\checkmark$ |  | $\checkmark$ |  |  |
| 100 | －100E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 2，500 | －2K5E | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | 100，000 | －100KE |  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |

$\boldsymbol{\nu}=$ Standard values；check availability at www．ohmite．com

DIMENSIONS

# Mouser Electronics 

Authorized Distributor

Click to View Pricing, Inventory, Delivery \& Lifecycle Information:

| Ohmite: |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D175K15K D12K50R D12K15R D12K10R D25K400 D12K500 D75K400 D25K750 D75K750 D12K7K5 |  |  |  |  |  |  |  |  |  |
| D75K7K5 D50K7K5 D25K7K5 D25K5R0 D75K2K25 D50K50K D50K60K D100K25R D100K10R D100K50R |  |  |  |  |  |  |  |  |  |
| D100K1K5 D100K5R0 D100K500 D75K80K D225K25K D225K20K D175K25K D175K20K D100K50K D12K8K5 |  |  |  |  |  |  |  |  |  |
| D225K2K5 D50K20K D50K25K D225K1K5 D12K400 D175K25R D225K15K D175K10K D225K10K D50K500 |  |  |  |  |  |  |  |  |  |
| D50K5R0 D175K1R0 D175K2R0 D175K4R0 D175K3R0 D12K600 D25K150 D225K25R D225K50R D225K10R |  |  |  |  |  |  |  |  |  |
| D12K750 D50K750 D50K1R0 D50K150 D50K100 D12K20R D12K25R D100K5K0 D175K2K5 D100K1K0 |  |  |  |  |  |  |  |  |  |
| D12K75R D50K40K D50K10K D50K2K0 D50K12K D50K8K0 D50K6K0 D50K3K0 D50K4K0 D12K1K25 |  |  |  |  |  |  |  |  |  |
| D75K4K5 D12K800 D25K4K5 D50K4K5 D12K4K5 D50K9K0 D50K15K D50K5K0 D50K7K0 D50K1K0 |  |  |  |  |  |  |  |  |  |
| D225K5K0 D225K1K0 D50K4R0 D75K200 D25K2R0 D25K200 D12K3R0 D75K250 D25K250 D12K300 |  |  |  |  |  |  |  |  |  |
| D225K3R0 D12K350 D12K10K D12K7R5 D12K1K5 D50K1K5 D75K1K5 D75K45K D75K40K D75K15R |  |  |  |  |  |  |  |  |  |

