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

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
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.
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 approx. one-half.
Overload	10 times rated wattage for 5 seconds.
Temperature coefficient	±260 ppm/°C
Dielectric	1000 VAC: 12 to 100 watt rating. 3000 VAC: 175 and 225 watt rat-
withstanding voltage	ing (measured from terminal to mounting bracket)
Max. amps	To calculate, use the formula √P/R.

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

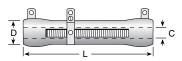
Power	Resistance	No power
rating	value	derating neces-
12W	$4,500\Omega$	sary for ratings
25W	$9,000\Omega$	higher than
50W	20,000Ω	100W.
75W	$35,000\Omega$	
100W	50,000Ω	



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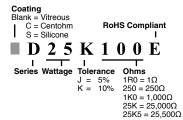
(in. / mm)

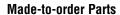


DIMENSIONS

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
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

ORDERING INFORMATION





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

RoHS Compliant

2 1 0 5 0 K 4 0 5 R 0 0 J E

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

| Tolerance | Tol

See 270 series custom core and terminal info

Standard Values

	Wattage									Wattage												Wattage							
Part No. Prefix ➤ Suffix ▼	D12K— 12	D25K 25	D50K 50	D75K 75	D100K 100	D175K 175	D225K 225	D500K 500	D1000K1000	Ohmic value	Part No. Prefix ➤ Suffix ▼	D12K— 12	D25K— 25	D50K 50	D75K 75	D100K100	D175K175	D225K 225	D500K500	D1000K1000	Ohmic value	Part No. Prefix ➤ Suffix ▼	D12K— 12	D25K— 25	D50K 50	D75K 75	D100K100	D175K175	D225K 225
1.0 — 1R0E	~	~	~	~	~	~	~			150	—150E	~	~	~							3,000	3K0E	~	~	~				
2 —2R0E	~	~	~	~	•	~	~			200	200E	~	~	•	~						4,000	4K0E	•						
33R0E		~	•	~	•	~	~			250	250E	~	~	~	~	~	•	~			5,000	5K0E	•	•	~		~	•	~
4 ——4R0E			•		•	~	~			300	300E	~	~	~	~						6,000	6K0E		•					
5 — 5R0E	~	~	~	~	~	~	~	~	~	400	400E	~	~	~	~						7,000	7K0E	~	~					
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	~	~	~	~	~	~	~			1,500	——1K5E	~	~	~	~	~	•	~			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.

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 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