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	К	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	
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 withstanding voltage	1000 VAC: 12 to 100 watt rating. 3000 VAC: 175 and 225 watt rat- ing (measured from terminal to mounting bracket)
Max. amps	To calculate, use the formula $\sqrt{P/R}$.

tance v exceed	ating value derating neces- 12W 4,500Ω sary for ratings 25W 9,000Ω higher than 100W 100W											
,		0,										
Power	•	,										
rating	value	derating neces-										
12W	4,500Ω	sary for ratings										
25W	9,000Ω	0										
50W	20,000Ω	100W.										
75W	35,000Ω											
100W	50,000Ω											



210 Series

Dividohm® Vitreous Enamel Adjustable Power

(in. / *mm*)



Series	Wattage	L	D	C	Core Code	Standard Termina			
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	К	40			
D50	50	4.0 / 101.6	0.562 / 14.3	0.313 / 7.94	К	40			
D75	75	6.0 / 152.4	0.562 / 14.3	0.313 / 7.94	К	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			
D1000	1000	20.0 / 508.0	2.50 / 63.5	1.75 / 44.5	S	4			

ORDERING INFORMATION



Standard Values

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٩	12	25	50	75	10	175	225	500	-1000	8		12	25	20	75	100	175	225	500	100	<u>ت</u>		12	25	20	75	100	175 225
Part No. Prefix ► Suffix ▼	D12K	D25K	D50K	D75K	D100K	D175K	D225K	D500K	D1000K	Ohmic value	Part No. Prefix ➤ Suffix ¥	D12K	D25K 2	D50K 5	D75K 7	D100K	D175K	D225K	D500K	D1000K	Ohmic value	Part No. Prefix ➤ Suffix ▼	D12K 1	D25K 2	D50K 5	D75K 7	D1 00K	D175K D225K
1.0 — 1R0E	r	r	r	r	r	r	r			150	——150E	~	r	r							3,000	3K0E	~	r	~			
2 — 2R0E	r	r	r	r	r	r	r			200	200E	~	r	r	r						4,000	4K0E	~					
3 — 3R0E		~	r	r	r	r	r			250	250E	V	r	~	r	r	r	r			5,000	——5K0E	r	r	~		r	~ ~
4 — 4R0E			V		V	V	r			300		V	r	~	r						6,000	6K0E		r				
5 — 5R0E	~	r	V	r	r	r	~	r	~	400	400E	~	r	r	r						7,000	——7K0E	~	V				
7.5 — 7R5E	r	~								500	500E	V	r	~	r	r	r	r	r	~	7,500	——7K5E	r	r	~			
10 — 10RE	r	~	r	r	r	r	r			750	——750E	V	r	~	r						10,000	——10KE	V	r	r	r	r	~
15 — 15RE	r	~		~						800	800E		~	~							12,000	——12KE						
20 — 20RE	V	r								1,000	——1K0E	~	~	r	r	~	V	V	~	~	15,000	——15KE		r	~			
25 — 25RE	V	r	V	~	V	V	r			1,250	——1K25E	~	~								20,000	20KE		r	~	r		
5050RE	~	~	V	~	~	V	V			1,500	——1K5E	~	~	~	V	V	V	V			25,000	25KE		V	~			
75 — 75RE	V	r	V							2,000	2K0E	~	~	r	r						50,000	——50KE			~		r	
100 — 100E	r	r	V	r	r	r	r			2,500	2K5E	~	r	r		r	r	V			100,000	——100KE			~		r	~
100 — 100E	•	∙ ∕ b	•				•	Jiev	ahili			✓ 50K9	•	•	0KΩ	•	•	-	alues	invol		—100KE ne resistan	ce w	ire a	•			•

 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 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 D75K45K D75K40K D75K15R