# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## **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	К	1625	40						
D75	75	1.0-100K	К	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 $\sqrt{P/R}$ .

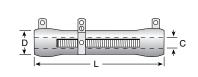
tance v exceed	limitations for values: When s the resistanc derate the Pow	resistance e values listed
,	improve reliab	0,
Power	Resistance	No power
rating	value	derating neces-
12W	4,500Ω	sary for ratings
25W	9,000Ω	higher than
50W	20,000Ω	100W.
75W	35,000Ω	
100W	50,000Ω	



## **210** Series

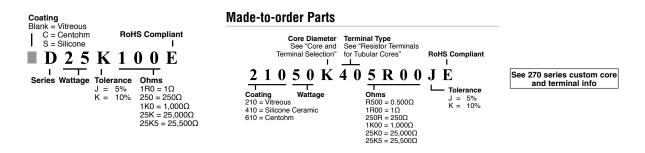
### Dividohm® Vitreous Enamel Adjustable Power

(in. / *mm*)



Series	Wattage	L	D	C	Core Code	Standard 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	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				

#### ORDERING INFORMATION



#### **Standard Values**

	75K	D100K 100 D175K 175	D225K <b>225</b>	D500K 500	D1000K <b>1000</b>	Ohmic value	Part No.	- 12	- 25	- 50	- 75	- 100	175	225	500	-1000	value		- 12	- 25	- 20	- 75	- 10	175 225
D50K	<b>D</b> 75K	D100K	D225K	D500K	1000K	nic valu				1	1						alu			1	1	1		
· •	~					Ohr	Prefix ➤ Suffix ▼	D12K-	D25K-	D50K	D75K—	D100K-	D175K-	D225K	D500K	D1 000K	Ohmic v	Part No. Prefix ➤ Suffix ▼	D12K	D25K	D50K	D75K	D1 00K-	D175K- D225K-
	•	/ /	~			150	——150E	~	~	~							3,000	3K0E	~	~	~			
· •	~	<ul><li></li></ul>	~			200	200E	~	~	~	~						4,000	4K0E	~					
~ ~	~	<ul><li></li></ul>	~			250	250E	~	~	~	~	~	~	~			5,000	——5K0E	~	~	~		~	~ ~
~	(	<ul><li></li></ul>	~			300		r	~	~	r						6,000	6K0E		~				
· ~	~	/ /	V	~	~	400	400E	r	~	~	r						7,000	——7K0E	~	~				
/						500		r	~	~	r	~	~	~	~	~	7,500	——7K5E	~	~	r			
~ ~	~	<ul> <li></li> </ul>	~			750	—750E	r	~	~	~						10,000	——10KE	~	r	~	~	~	~
/	~					800	800E		r	r							12,000	——12KE						
/						1,000	——1K0E	~	~	~	~	~	~	~	~	~	15,000	——15KE		~	~			
~ ~	~	<ul> <li></li> </ul>	~			1,250	——1K25E	~	~								20,000	20KE		~	~	~		
/ <b>/</b>	~	/ /	~			1,500	——1K5E	~	V	~	~	~	~	~			25,000	25KE		V	~			
~ ~						2,000	2K0E	~	r	~	~						50,000				r		~	
~ ~	~	<ul> <li></li> </ul>	V			2,500	2K5E	~	r	~		~	~	~			100,000	—100KE			r		~	~
	<i>v</i> <i>v</i> <i>v</i> <i>v</i> <i>v</i>			V       V       V       V       V         V       V       V       V       V         V       V       V       V       V         V       V       V       V       V         V       V       V       V       V         V       V       V       V       V         V       V       V       V       V         V       V       V       V       V         V       V       V       V       V	v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v         v       v       v       v       v       v	V       V       V       V       V         V       V       V       V       V       V         V       V       V       V       V       V         V      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v       v       v       v       500       -500E         v       v       v       v       v       750       -750E         800       -800E       1,000       -1K0E       1,250       -1K25E         v       v       v       v       v       1,500       -1K5E         2,000       -2K0E       2,500       -2K0E       2,500       -2K5E	✔       ✔       ✔       ✔       ✔       ✔       ₽       250       −250E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       300       −300E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       ✔       400       −400E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       ✔       400       −300E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       ✔       400       −300E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       ✔       400       −300E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       ✔       400       −300E       ✔         ✔       ✔       ✔       ✔       ✔       ✔       ✔       ₹       500       −300E       ₹         ✔       ✔       ✔       ✔       ✔       ✔       ₹       ₹       750       −300E       ₹         ✔       ✔       ✔       ✔       ✔       ₹       ₹       1,250       −11K25E       ₹         ✔       ✔       ✔	V       V       V       V       250       -250E       V       V         V       V       V       V       300       -300E       V       V         V       V       V       V       V       400       -400E       V       V         V       V       V       V       V       V       400       -400E       V       V         V       V       V       V       V       V       1000       -500E       V       V         V       V       V       V       V       V       1000       -750E       V       V         1,000       -1K0E       V       V       V       V       V       V       V         V       V       V       V       V       V       1,250       -1K25E       V       V         V       V       V       V       V       V       1,500       -1K5E       V       V         V       V       V       V       V       V       2,500       -2K5E       V       V	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	V       V       V       V       V       V       V       V       V         V       V       V       V       V       300      300E       V       V       V       V         V       V       V       V       V       V       400      400E       V       V       V       V         V       V       V       V       V       400      500E       V       V       V       V         V       V       V       V       V       P       500      500E       V       V       V       V       V         V       V       V       V       V       V       P <td>V       V       V       V       250      250E       V       V       V       V         V       V       V       V       V       300      300E       V       V       V       V         V       V       V       V       V       V       400      400E       V       V       V       V         V       V       V       V       V       400      400E       V       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  V       S000       -500E       V       V       V       V       V       S000       7,500         V       V       V       V       V       V       V       S000       -750E       V       V       V       V       V       S000       10,000         10,000       -1K0E       V       V       V       V       V       V       V       V       V       15,000         V       V       V       V       V       V       I       1,500       -1K25E       V       V       <td< td=""><td>v       v</td><td>v       v</td><td>v       v</td><td>v       v</td><td>v       v</td><td>v       v</td></td<></td></td<></td>	V       V       V       V       250      250E       V       V       V       V         V       V       V       V       V       300      300E       V       V       V       V         V       V       V       V       V       V       400      400E       V       V       V       V         V       V       V       V       V       400      400E       V       V       V       V         V       V       V       V      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 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.