

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!



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270 Series

Vitreous Enamel Power

L1000

1000

Select 270 Type fixed resistors for applications requiring wattage ratings from 12 to 1000 watts. The 270 Type resistors are equipped with lug terminals suitable for soldering or sturdy bolt connection. When secure mounting is required, the hollow core of these resistors permit fastening with spring-type brackets, thru bolts or thru bolts with slotted-steel brackets.

Suitable for rugged applications, the 270 Type resistors feature all-welded construction and durable lead free vitreous enamel coating. Mounting brackets not included with resistors.

0.69-392K



- Terminals suitable for soldering or bolt connection
- High wattage applications
- Rugged lead free vitreous enamel coating
- Flame resistant coating
- All-welded construction
- RoHS compliant available
- "Fast on" option see terminal 538, http://www.ohmite.com/techdata/terminals.pdf

45

		SERIES SPECIFICATIONS										
Series	Wattage	Ohms	Core Code	Voltage	Std. Terminal							
L12	12	0.1-51K	D	565	57							
L25	25	0.15-100K	K	625	40							
L50	50	0.38-260K	K	1625	40							
L100	100	0.23-101K	M	2845	40							
L175	175	0.13-101K	Р	3595	46							
L225	225	0.16-129K	Р	4595	46							
L500	500	0.38-218K	S	4970	45							

Non-Inductive versions available; Other sizes available; Also available in low cost Centohm or Silicone coating; Consult Ohmite.

* Maximum Voltage is based on Ohm's Law [$V=\sqrt{P^*R}$] as limited by the resistance value of specified product

CHARACTERISTICS

8900

EDIES SPECIFICATIONS

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								
Derating	Linearly from 100% @ +25°C to 0% @ +350°C.								
Tolerance	$\pm 5\%$ 1 Ω and over (J); $\pm 10\%$ under 1 Ω (K)								
Power rating	Based on 25°C free air rating.								
Overload	10 times rated wattage for 5 seconds.								
Temperature coefficient	1 to 20Ω: ±400 ppm/°C; Above 20Ω: ±260 ppm/°C								
Dielectric withstanding voltage	1000 VAC: 12 to 100 watt rating. 3000 VAC: 175 to 225 watt rating (Measured from terminal to mounting bracket)								
Max. amps	use the formula √P/R								
	When resistance exceeds the resistance values listed, derate the Power Rating by 25% to improve reliability. No power derating necessary for ratings higher than 100W.								
	Power Resistance rating value								
	$12W$ $3,900\Omega$								
	25W 12,000Ω								
	50W 35.000Ω								

 $75,000\Omega$

see http://www.ohmite.com/techdata/lug-mounting.php

100W

(continued)

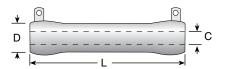
Mounting Hardware

270 Series

Vitreous Enamel Power

DIMENSIONS

in./mm

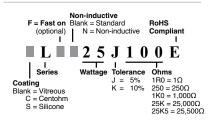


Series	Wattage	L	D	C	Core Code*	Std. Term.**
L12	12	1.75 / 44.4	0.313 / 7.94	0.188 / 4.76	D	57
L25	25	2.0 / 50.8	0.562 / 14.3	0.313 / 7.94	K	40
L50	50	4.0 / 101.6	0.562 / 14.3	0.313 / 7.94	K	40
L100	100	6.5 / 165.1	0.750 / 19.1	0.50 / 12.7	М	40
L175	175	8.5 / 215.9	1.125 / 28.6	0.75 / 19.1	Р	46
L225	225	10.5 / 266.7	1.125 / 28.6	0.75 / 19.1	Р	46
L500	500	12.0 / 304.8	2.50 / 63.5	1.75 / 44.5	S	45
L1000	1000	20.0 / 508.0	2.50 / 63.5	1.75 / 44.5	S	45

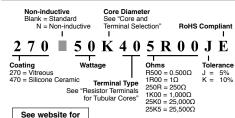
^{*} http://www.ohmite.com/techdata/200-210-270-custom.pdf

ORDERING INFORMATION

Standard



Made-to-order



L1000J---1000

-150KE

-200KE

-250KE

150,000

200,000

250,000

See website for custom core and terminal info

Standard part numbers for 270 series

						Wattage						l		Wattage								
Ohmic value		12 Watt	Ohmic value	1	2 Watt	value		52	20	9	175	225	200	_1000	value		22	20	9	175	222	200
0.51	•	L12JKR51E	180	~	L12J180E	, va	Part No.							Ì	, va	Part No.						
1	~	L12J1R0E	270	~	L12J270E	Ohmic	Prefix ➤	57	L50J-	L100J	L175J	L225J	L500J-	L1000J-	Ohmic	Prefix ➤	57	L50J-	L100J	L175J	L225J-	L500J
3.3	~	L12J3R3E	330	~	L12J330E		Suffix ¥	L2	L5			7	L5	ニ	동	Suffix ¥	L2	L5	\Box	\Box	L2	L5
4.7	~	L12J4R7E	390	~	L12J390E	1	——1R0E	•	•	~	~	~			2,500	2K5E	•	~	~		~	
10	1	L12J10RE	470	~	L12J470E	2	2R0E	•	•	~	~	~			3,000	3K0E	•	~	~	~	~	
12	•	L12J12RE	560	~	L12J560E	3	3R0E	•	•	~	~	~			3,500	3K5E	•					
15	•	L12J15RE	1000	~	L12J1K0E	4	4R0E	•	•	~	~	~			4,000	4K0E	•	~				
22	~	L12J22RE	1200	~	L12J1K2E	5	5R0E	1	1	~	~	~			5,000	5K0E	~	~	~	~	~	
27	•	L12J27RE	1500	~	L12J1K5E	10	——10RE	•	•	~	~	~			6,000	6K0E	•					
33	1	L12J33RE	2200	~	L12J2K2E	15	——15RE	•							7,500	——7K5E	•	~	~		~	
47	•	L12J47RE	2700	~	L12J2K7E	25	25RE	•	•	~	~	~			10,000	——10KE	•	~	~	~	~	
68	~	L12J68RE	4700	~	L12J4K7E	50	50RE	~	•	~	~	~			12,000	——12KE	•					
82	~	L12J82RE	10000	~	L12J10KE	75	75RE	~	1	~	~	~			15,000	——15KE	~	~	~		~	
100	~	L12J100E	18000	~	L12J18KE	100	——100E	~	•	~	~	~			20,000	20KE	•	~	~		~	
150	V	L12J150E	22000	~	L12J22KE	125	——125E			~	~				25,000	25KE	•	~			~	
	51000 ✔ L12J51KE			150	——150E	•	•	~	~	~			30,000	30KE			~		~			
. Ctandard values, shock availability using the worldwide			200	200E	~	•						35,000	35KE		~							
= Standard values; check availability using the worldwide inventory search at www.ohmite.com		250	250E	•	1	~	~	~			40,000	40KE	1				~					
•			500	500E	•	•	~	~	~			50,000	50KE	•	~	~		~				
Red outlined values supplied in Silicone-Ceramic coatings instead of vitreous enamel.			750	750E	~	1	~		~			60,000	60KE					~				
			800	800E	•	•						75,000	75KE		~		1	V				
						1,000	——1K0E	•	•	~	~	~			100,000	—100K	E/	~	~	1	1	
						4.500	41/55								450,000	4.501/	_			$\overline{}$		

1,500 —1K5E ✔ ✔

-2K0E ✔

2,000

^{**} http://www.ohmite.com/techdata/terminals.pdf