270 Series

Vitreous Enamel Power

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.

FEATURES

- 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, https://www.ohmite.com/assets/docs/terminals.pdf

		SERIES SPECIFICATIONS										
Series	Wattage	Ohms	Core Code	Max. 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							
L 1000	1000	0.69-392K	S	8900	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=√P*R] as limited by the resistance value of specified product or the voltage limit stated, whichever is lower.

CHARACTERISTICS

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 rating $0.00000000000000000000000000000000000$						
Mounting Hardware	see https://www.ohmite.com/assets/docs/hardware_resistor.pdf						

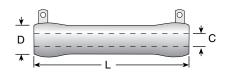
(continued)

270 Series

Vitreous Enamel Power

DIMENSIONS

in./mm

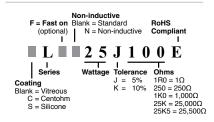


Series	Wattage	L	D	C	Core Code*	Std. Term.**
L12	12	1.75 / 44.4	0.313 / 7.94	0.188 / 4.76	D	57
L25	25	2.0 / 50.8	0.562 / 14.3	0.313 / 7.94	K	40
L50	50	4.0 / 101.6	0.562 / 14.3	0.313 / 7.94	K	40
L100	100	6.5 / 165.1	0.750 / 19.1	0.50 / 12.7	М	40
L175	175	8.5 / 215.9	1.125 / 28.6	0.75 / 19.1	Р	46
L225	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

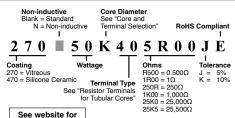
^{*} https://www.ohmite.com/assets/docs/200-210-270-custom.pdf

ORDERING INFORMATION

Standard



Made-to-order



See website for custom core and terminal info

Standard part numbers for 270 series

Ohmic value		12 Watt	Ohmic value	12 Watt				
0.51	~	L12JKR51E	180	~	L12J180E			
1	~	L12J1R0E	270	~	L12J270E			
3.3	•	L12J3R3E	330	~	L12J330E			
4.7	•	L12J4R7E	390	~	L12J390E			
10	~	L12J10RE	470	~	L12J470E			
12	•	L12J12RE	560	~	L12J560E			
15	•	L12J15RE	1000	~	L12J1K0E			
22	•	L12J22RE	1200	~	L12J1K2E			
27	•	L12J27RE	1500	~	L12J1K5E			
33	~	L12J33RE	2200	~	L12J2K2E			
47	•	L12J47RE	2700	~	L12J2K7E			
68	~	L12J68RE	4700	~	L12J4K7E			
82	~	L12J82RE	10000	~	L12J10KE			
100	~	L12J100E	18000	~	L12J18KE			
150	~	L12J150E	22000	V	L12J22KE			
			51000	~	L12J51KE			

Standard values; check availability using the worldwide inventory search at www.ohmite.com

Red outlined values supplied in Silicone-Ceramic coatings instead of vitreous enamel.

Wattage						Wattage										
9	22	20	9	175	225	200	100	<u> </u>	;	22	20	5	175	225	500	100
Ohmic value	Part No. Prefix ➤ Suffix ▼		L1007—	L175J—_	L225J—.	L500J—	L1000J	Ohmic value	Part No.	L25J	L507	L1001—	L175J	L225J	L500J	L1000J
1	—1R0E ✔	~	~	~	~			2,500	2K5E	~	~	~		~		
2	—2R0E ✔	~	~	~	~			3,000	3K0E	~	~	•	~	~		
3	3R0E ✔	~	~	~	~			3,500	3K5E	~						
4	4R0E ✔	'	~	~	~			4,000	4K0E	~	~					
5	—5R0E ✔		~	~	~			5,000	5K0E	<u> </u>	~	~	~	~		
10	—10RE ✔		~	~	~			6,000	6K0E							
15	—15RE ✔							7,500	——7K5E		~	~		~		
25	—25RE ✔		~	~	~			10,000	——10KE		~	~	~	~		
50	—50RE ✔		~	~	~			12,000	——12KE							
75	—75RE ✔		~	~	~			15,000	——15KE		~	~		~		
100	—100E ✔	~	~	~	~			20,000	——20KE		~	~		~		
125	——125E		~	~				25,000	——25KE	~	~			~		
150	—150E ✔		~	~	~			30,000	30KE			~		~		
200	—200E ✔							35,000	35KE		~					
250	—250E ✔		~	~	~			40,000	40KE					~		
500	—500E ✔	~	~	~	~			50,000	50KE	~	~	~		~		
750	—750E ✔		~		~			60,000	60KE					~		
800	800E ✔							75,000	——75KE		~		~	~		
1,000	—1K0E ✔		~	~	~			100,000	100KE	~	~	~	~	~		
1,500	—1K5E ✔		~		~			150,000	——150KE		~					
2,000	—2K0E ✔	~	~	~	~			200,000	200KE		~					
								250,000	250KE		~					



^{**} https://www.ohmite.com/assets/docs/terminals.pdf

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VK100NA-750 40/70MJ2K00BE VP10FA-3K VP50KA-20K VPR10F1 VPR10F-13.5K VPR10F-4500 VPR10F-4.5K VPR10F-4K

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RER70F27R4P VPR5F-600 VPR5F250 VPR10F-8K VPR10F-6K VPR10F225 VPR10F-1.75K VPR10F-1.25K VPR10F-125 VPR10F10

VP50KA-12K VP50KA-100K VP25KA-5000 VK100NA250 VK100NA-15 620-5R00-FBW 850J5R0E-B L100J150E-MT1 L50J500E-MT1