

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	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	P	3595	46
L225	225	0.16-129K	P	4595	46
L500	500	0.38-218K	S	4970	45
L1000	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 $[V=\sqrt{P \times R}]$ as limited by the resistance value of specified product

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	±5% 1Ω and over (J); ±10% under 1Ω (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 $\sqrt{P/R}$										
Power limitations for high resistance values	When resistance exceeds the resistance values listed, derate the Power Rating by 25% to improve reliability. <i>No power derating necessary for ratings higher than 100W.</i>										
	<table> <tr> <th>Power rating</th><th>Resistance value</th></tr> <tr> <td>12W</td><td>3,900Ω</td></tr> <tr> <td>25W</td><td>12,000Ω</td></tr> <tr> <td>50W</td><td>35,000Ω</td></tr> <tr> <td>100W</td><td>75,000Ω</td></tr> </table>	Power rating	Resistance value	12W	3,900Ω	25W	12,000Ω	50W	35,000Ω	100W	75,000Ω
Power rating	Resistance value										
12W	3,900Ω										
25W	12,000Ω										
50W	35,000Ω										
100W	75,000Ω										
Mounting Hardware	see https://www.ohmite.com/assets/docs/hardware_resistor.pdf										

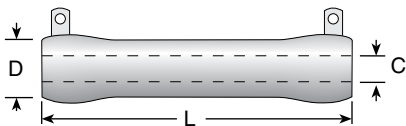
(continued)

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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	M	40
L175	175	8.5	215.9	1.125	28.6	0.75 / 19.1	P	46
L225	225	10.5	266.7	1.125	28.6	0.75 / 19.1	P	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>

** <https://www.ohmite.com/assets/docs/terminals.pdf>

ORDERING INFORMATION

Standard

F = Fast on (optional)	Non-inductive Blank = Standard N = Non-inductive	RoHS Compliant
L	25	J 100 E
Coating Blank = Vitreous C = Centohm S = Silicone	Series Wattage	Tolerance J = 5% K = 10%
		Ohms 1R0 = 1Ω 250 = 250Ω 1K0 = 1,000Ω 25K = 25,000Ω 25K5 = 25,500Ω

Made-to-order

Non-inductive Blank = Standard N = Non-inductive	Core Diameter See "Core and Terminal Selection"	RoHS Compliant
270	50	K 405 R 00 J E
Coating 270 = Vitreous 470 = Silicone Ceramic	Wattage	Ohms R500 = 0.500Ω 1R00 = 1Ω 250R = 250Ω 1K00 = 1,000Ω 25K0 = 25,000Ω 25K5 = 25,500Ω
	Terminal Type See "Resistor Terminals for Tubular Cores"	Tolerance J = 5% K = 10%

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	✓	L12J22KE	
				51000	✓	L12J51KE	

Ohmic value		25		50		100		175		225		500		1000	
Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix
1	1R0E	25J	25J	50J	50J	100J	100J	175J	175J	225J	225J	500J	500J	1000J	1000J
2	2R0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	3R0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	4R0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	5R0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	10RE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	15RE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	25RE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50	50RE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75	75RE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100	100E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
125	125E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150	150E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200	200E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
250	250E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
500	500E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
750	750E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
800	800E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,000	1K0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,500	1K5E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,000	2K0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Ohmic value		25		50		100		175		225		500		1000	
Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix	Part No.	Prefix
2,500	2K5E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3,000	3K0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3,500	3K5E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4,000	4K0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5,000	5K0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6,000	6K0E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7,500	7K5E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10,000	10KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12,000	12KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15,000	15KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20,000	20KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25,000	25KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30,000	30KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35,000	35KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40,000	40KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50,000	50KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
60,000	60KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75,000	75KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100,000	100KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150,000	150KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200,000	200KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
250,000	250KE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ = 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.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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