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													
Wattage	Ohms	Core Code	Max. Voltage*	Std. Terminal	Non-Inductive versions available; Other sizes available; Also available in										
12	0.1-51K	D	565	57	low cost Centohm or Silicone coating;										
25	0.15-100K	K	625	40	Consult Ohmite. * Maximum Voltage is based on										
50	0.38-260K	К	1625	40	Ohm's Law [V=√P*R] as limited by the resistance value of specified product										
100	0.23-101K	М	2845	40	or the voltage limit stated, whichever										
175	0.13-101K	Р	3595	46	is lower.										
225	0.16-129K	Р	4595	46											
500	0.38-218K	S	4970	45											
1000	0.69-392K	S	8900	45											
	12 25 50 100 175 225 500	12 0.1-51K 25 0.15-100K 50 0.38-260K 100 0.23-101K 175 0.13-101K 225 0.16-129K 500 0.38-218K	12 0.1-51K D 25 0.15-100K K 50 0.38-260K K 100 0.23-101K M 175 0.13-101K P 225 0.16-129K P 500 0.38-218K S	12 0.1-51K D 565 25 0.15-100K K 625 50 0.38-260K K 1625 100 0.23-101K M 2845 175 0.13-101K P 3595 225 0.16-129K P 4595 500 0.38-218K S 4970	12 0.1-51K D 565 57 25 0.15-100K K 625 40 50 0.38-260K K 1625 40 100 0.23-101K M 2845 40 175 0.13-101K P 3595 46 225 0.16-129K P 4595 46 500 0.38-218K S 4970 45										

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.

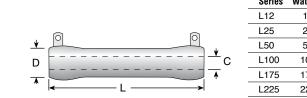
	,							
Core	Tubular ceramic.							
Terminals	older coated radial lug. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu							
Derating	nearly from 100% @ +25°C to 0% @ +350°C.							
Tolerance	±5% 1Ω and over (J); ±10% under 1Ω (K)							
Power rating	Based on 25°C free air rating.							
Overload	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 √P/R							
	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>							
	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							

270 Series

Vitreous Enamel Power

in./mm

DIMENSIONS



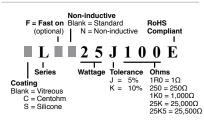
Series	Wattage	L	D	C	Core Code*	Std. Term.**		
L12	12	1.75 / 44.4	0.313 / 7.94	0.188 / 4.76	D	57		
L25	25	2.0 / 50.8	0.562 / 14.3	0.313 / 7.94	К	40		
L50	50	4.0 / 101.6	0.562 / 14.3	0.313 / 7.94	К	40		
L100	100	6.5 / 165.1	0.750 / 19.1	0.50 / 12.7	М	40		
L175	175	8.5 / 215.9	1.125 / 28.6	0.75 / 19.1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

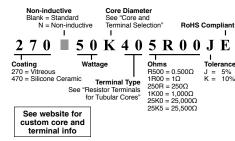
** https://www.ohmite.com/assets/docs/terminals.pdf

ORDERING INFORMATION

Standard



Made-to-order



Standard part numbers for 270 series

Ohmic			Ohmic	_				
value		12 Watt	value	1	2 Watt		value	
0.51	r	L12JKR51E	180	~	L12J180E		5	Ра
1	r	L12J1R0E	270	~	L12J270E		Í	Pre
3.3	r	L12J3R3E	330	~	L12J330E	2	5	Su
4.7	r	L12J4R7E	390	~	L12J390E		1	
10	r	L12J10RE	470	~	L12J470E		2	
12	r	L12J12RE	560	~	L12J560E		3	
15	r	L12J15RE	1000	~	L12J1K0E		4	
22	r	L12J22RE	1200	~	L12J1K2E		5	_
27	r	L12J27RE	1500	~	L12J1K5E	1	0	
33	V	L12J33RE	2200	~	L12J2K2E	1	5	
47	r	L12J47RE	2700	~	L12J2K7E	2	5	
68	r	L12J68RE	4700	~	L12J4K7E	5	0	
82	r	L12J82RE	10000	~	L12J10KE	7	5	
100	r	L12J100E	18000	~	L12J18KE	10	0	
150	r	L12J150E	22000	~	L12J22KE	12	5	
			51000	~	L12J51KE	15	0	
						00	0	

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.

rev 8/20-1

Wattage 👝								Wattage									
e	L	ŝ	20	<u>1</u> 0	175	225	500	-1000	e		25	50	10	175	225	500	1000
Ohmic value	Part No.	1	1		Ì		1		Ohmic value	Part No.	1	1	Ì				
nic	Prefix >	2	7	50	5-	51-	50	L1000J-	li	Prefix >	1	-	-00	5-	51-	-003-	L1000J-
- H	Suffix ¥	-257	L50J	L100J	L175J	L225J	L500J	E	Ē	Suffix ¥	L25J-	L50J	L100J	L175J	L225J	L5(E
1	——1ROE (/	~	V	V	V			2,500	—2K5E	V	V	V		V		
2	2R0E •	/	~	r	~	V			3,000	——3K0E	~	~	~	~	~		
3	3R0E •	/	~	~	r	r			3,500	——3K5E	r						
4	4R0E •	/	~	r	r	r			4,000	4K0E	r	r					
5		/	~	V	V	1			5,000	——5K0E	V	V	~	V	r		
10	—10RE •	/	~	r	~	V			6,000	6K0E	r						
15	—15RE •	/							7,500	——7K5E	~	~	r		~		
25	25RE •	/	~	r	~	V			10,000	——10KE	~	~	~	~	~		
50	50RE •	/	~	r	~	V			12,000	——12KE	~						
75	75RE •	/	~	~	~	~			15,000	15KE	~	~	~		~		
100	——100E •	/	~	r	~	V			20,000	—20KE	~	~	~		~		
125	——125E			~	r				25,000	—25KE	r	~			~		
150	——150E •	/	~	r	r	r			30,000	30KE			~		~		
200	200E •	/	~						35,000	——35KE		~					
250	250E •	/	~	V	r	V			40,000	40KE	r				~		
500	—500E •	/	~	r	~	V			50,000	——50KE	r	~	~		V		
750	—750E •	/	~	r		V			60,000	60KE					~		
800	800E •	/	~						75,000	—75KE		r		~	V		
1,000	——1K0E •	/	~	r	V	V			100,000	——100K	EV	r	V	V	~		
1,500	——1K5E 🛛	/	~	V		V			150,000	——150K	E	~					
2,000	2K0E •	/	~	r	V	V			200,000	—200K	E	r					
									250,000	—250K	E	r					



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 RWR89S10R0FRB12
 RWR89S9310FPB12
 27J1K0
 93J62RE
 AC10000002208JAB00
 1HJ-25
 FSQ5WR47J
 FW10A33R0JA
 25J39K

 25J5R0-B
 25W1D0
 272-303-JBW
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 CP0005270R0JE1491
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 CPCC051R000JB31
 CPW052K500JE143

 CPW05700R0JE143
 C1010RJL
 CA000210R00JE14
 VPR5F1500
 RS02B887R0FE73
 RWR74SR604FRB12
 RWR84S1001FRB12

 RWR84S20R0FSBSL
 RWR89S6190FSB12
 CPW055R000JB143
 ULW5-39R0JT075
 W31-R047JA1
 VP25K-120
 VC3D900
 ULW5

 68RJT075
 65888-3R3
 CPW151K500JE313
 RWR80N3400FSB12
 RWR81S1000FRB12
 RWR89N30R1FRB12
 RWR81S4R99FPB12

 RWR74S4R02FRRSL
 WW1JT33R0
 VC3D.5
 FW70A1000JA
 VC3D.5
 FW70A1000JA