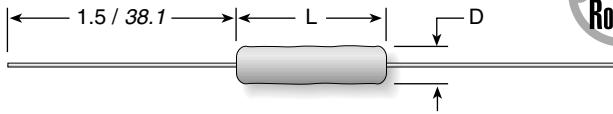


20 Series

Vitreous Enamel Conformal Axial Terminal Wirewound, 5% Tolerance Standard



Series	Wattage	Ohms	Dimensions (in. / mm)		Max. Volt. **	Lead ga.
			Length*	Diam.*		
21	1	1.0-3.0K	0.406 / 10.3	0.156 / 4.0	75	24
22	2	1.0-3.0K	0.406 / 10.3	0.219 / 5.6	65	20
23	3	0.1-10K	0.500 / 12.7	0.220 / 5.6	135	20
25	5	0.1-28K	1.000 / 25.4	0.276 / 7.0	330	20
27	7	0.1-25K	1.250 / 31.8	0.394 / 10.0	450	20
20	10	0.1-100K	1.844 / 46.8	0.394 / 10.0	720	20

12.5 watt size available on special order

*For units below 1Ω, add 15% to body diameter, 10% to body length.

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

The 20 Series axial terminal resistors are both durable and economical. They have all the electrical attributes of the more expensive 90 Series resistors, including all-welded construction.

They offer the durability of a lead free conformal vitreous enamel coating and are ideal for computer, communications and industrial applications in which cost, quality, and reliability are key considerations.

FEATURES

- Rugged vitreous enamel coating withstands high humidity and temperature cycling.
- Durable construction, recommended for industrial applications where reliability is paramount.
- All-welded construction.
- Flame resistant lead free vitreous enamel coating.
- RoHS compliant; Add "E" suffix to part number to specify.

Terminals: Solder-coated axial Derating

Linearly from
100% @ +25°C to
0% @ +350°C.

Electrical

Tolerance: ±5% standard.
Other tolerances available.

Power rating: Based on 25°C free air rating (other wattages available).

Overload:

Under 7 watts: 5 times rated wattage for 5 seconds.

7 watts and over: 10 times rated wattage for 5 seconds.

Temperature coefficient:

1 to 9.99 ohms: ±50 ppm/°C
10 ohms and over: ±30 ppm/°C

SPECIFICATIONS

Material

Coating: Conformal lead free vitreous enamel.

Core: Ceramic.

ORDERING INFORMATION

RoHS Compliant

21JR10E

20 Series	Wattage	Tolerance	Resistance Value
Vitreous Enamel	1 = 1W	J = 5%	R10 = 0.10Ω
Axial Lead	2		1R0 = 1.0Ω
Wirewound	3		10R = 10.0Ω
	5		250 = 250Ω
	7		1K0 = 1,000Ω
	0 = 10W		4K5 = 4,500Ω
			50K = 50,000Ω

Check product availability at www.ohmite.com

STANDARD PART NUMBERS FOR 20 SERIES

Ohmic value	Part No. Prefix Suffix	Wattage						Ohmic value	Part No. Prefix Suffix	Wattage						Ohmic value	Part No. Prefix Suffix	Wattage					
		1	2	3	5	7	10			1	2	3	5	7	10			1	2	3	5	7	10
0.10	R10	✓						62	62R	✗	✗	✓	✓	✓	✓	1,800	1K8	✓	✓	✓	✗	✗	✗
0.13	R13		✓	✓				68	68R	✓	✓	✓	✓	✓	2,000	2K0	✗	✓	✓	✓	✗	✓	
0.15	R15			✓	✓			75	75R	✓	✓	✓	✓	✓	2,200	2K2	✓	✓	✓	✓	✓	✓	
0.20	R20				✓	✓		82	82R	✓	✓	✓	✓	✓	2,500	2K5	✓	✓	✓	✓	✓	✓	
0.25	R25				✓	✓	✓	100	100	✓	✗	✓	✓	✓	2,700	2K7	✓	✓	✓	✓	✗	✓	
0.30	R30					✓	✓	120	120	✓	✓	✓	✓	✓	3,000	3K0	✓	✓	✓	✓	✓	✓	
0.33	R33						✓	125	125	✗	✗	✓	✓	✓	3,300	3K3				✓	✓	✓	
0.50	R50							150	150	✓	✓	✓	✓	✓	3,500	3K5				✗	✓	✓	
0.75	R75							180	180			✓	✓	✓	3,900	3K9				✓	✓	✓	
1	R10	✓	✓	✓	✓	✓	✓	200	200	✓	✓	✓	✓	✓	4,000	4K0				✓	✓	✓	
1.5	R15	✓	✓	✓	✓	✓	✓	220	220	✓	✓	✓	✓	✓	4,500	4K5				✗	✓	✓	
2	R20	✓	✓	✓	✓	✓	✓	225	225	✗	✗	✗	✗	✗	4,700	4K7				✓	✓	✓	
2.2	R22	✓	✓	✓	✓	✓	✓	250	250	✓	✓	✓	✓	✓	5,000	5K0				✓	✓	✓	
3	R30	✓	✓	✓	✓	✓	✓	270	270	✓	✓	✓	✓	✓	6,000	6K0				✓	✓	✓	
4	R40	✓	✗	✓	✓	✓	✓	300	300	✓	✓	✓	✓	✓	6,800	6K8				✓	✓	✓	
5	R50	✓	✓	✓	✓	✓	✓	330	330	✓	✓	✓	✓	✓	7,000	7K0				✓	✓	✓	
7.5	R75	✓	✓	✓	✓	✓	✓	350	350	✗	✓	✗	✓	✓	7,500	7K5				✓	✓	✓	
10	R10	✓	✓	✓	✓	✓	✓	390	390	✓	✓	✓	✓	✓	8,000	8K0				✓	✓	✓	
12	R12	✗	✗	✓	✓	✓	✓	400	400	✗	✗	✓	✓	✓	9,000	9K0				✓	✓	✓	
15	R15	✓	✗	✓	✗	✓	✓	450	450	✗	✗	✓	✓	✓	10,000	10K				✓	✓	✓	
18	R18	✓	✗	✓	✓	✓	✓	470	470	✓	✓	✓	✓	✓	12,000	12K				✓	✓	✓	
20	R20	✓	✓	✓	✓	✓	✓	500	500	✓	✓	✓	✓	✓	13,000	13K				✓	✓	✓	
22	R22	✓	✓	✓	✓	✓	✓	560	560	✓	✓	✓	✓	✓	15,000	15K				✓	✓	✓	
25	R25	✗	✓	✓	✓	✓	✓	600	600	✓	✓	✓	✓	✓	17,000	17K				✓	✓	✓	
27	R27	✓	✓	✓	✓	✓	✓	680	680	✓	✓	✓	✓	✓	20,000	20K				✓	✓	✓	
30	R30	✓	✓	✓	✓	✓	✓	750	750	✓	✓	✓	✓	✓	22,000	22K				✓	✓	✓	
33	R33	✓	✓	✓	✓	✓	✓	800	800	✓	✓	✓	✓	✓	25,000	25K				✓	✓	✓	
35	R35	✗	✗	✗	✗	✗	✗	820	820	✓	✓	✓	✓	✓	30,000	30K				✓	✓	✓	
39	R39	✓	✓	✓	✓	✓	✓	900	900	✗	✓	✓	✓	✓	33,000	33K				✓	✓	✓	
40	R40	✓	✗	✓	✓	✓	✓	1,000	1K0	✓	✓	✓	✓	✓	35,000	35K				✓	✓	✓	
47	R47	✓	✓	✓	✓	✓	✓	1,100	1K1	✗	✗	✓	✓	✓	40,000	40K				✓	✓	✓	
50	R50	✓	✓	✓	✓	✓	✓	1,200	1K2	✓	✓	✓	✓	✓	50,000	50K				✓	✓	✓	
56	R56	✗	✓	✓	✓	✓	✓	1,500	1K5	✓	✓	✓	✓	✓						✓	✓	✓	

✓ = Standard values

✗ = Non-standard values subject to minimum handling charge per item

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.