

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.

SPECIFICATIONS

Material

Coating: Conformal lead free vitreous enamel.

Core: Ceramic.

Terminals: Solder-coated axial.
RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu

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:

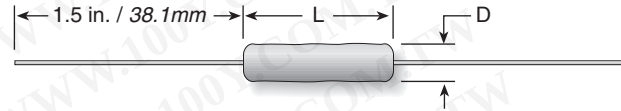
1 to 9.99 ohms: ±50 ppm/°C
10 ohms and over: ±30 ppm/°C



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

20 Series

Vitreous Enamel Conformal Axial Terminal Wirewound, 5% Tolerance Standard



		Dimensions (in./mm max.)				Max.	
Series	Wattage	Ohms	Length*	Diam.*	Volt.**	Lead ga.	
21	1	1.0-3.0K	0.421 / 10.7	0.156 / 4.0	75	24	
22	2	1.0-3.0K	0.421 / 10.7	0.219 / 5.6	65	20	
23	3	0.1-10K	0.515 / 13.1	0.220 / 5.6	135	20	
25	5	0.1-28K	1.015 / 25.8	0.276 / 7.0	330	20	
27	7	0.1-25K	1.265 / 32.1	0.394 / 10.0	450	20	
20	10	0.1-100K	1.859 / 47.2	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=√P*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.

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 ohmite.com

STANDARD PART NUMBERS FOR 20 SERIES

Wattage								Wattage								Wattage							
Ohmic value	Part No. Prefix ▶ Suffix ▼	1	2	3	5	7	10	Ohmic value	Part No. Prefix ▶ Suffix ▼	1	2	3	5	7	10	Ohmic value	Part No. Prefix ▶ Suffix ▼	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 — 1R0	✓	✓		✓	✓	✓	✓	200 — 200	✓	✓	✓	✓	✓	✓	✓	4,000 — 4K0				✓	✓	✱	✓
1.5 — 1R5	✓	✓	✓	✓	✓	✓	✓	220 — 220	✓	✓	✓	✓	✓	✱	✓	4,500 — 4K5			✓	✓	✓	✱	✓
2 — 2R0	✓	✓	✓	✓	✓	✓	✓	225 — 225	✱	✱	✓	✓	✱	✓	✓	4,700 — 4K7				✓	✓	✓	✓
2.2 — 2R2	✓	✓	✓	✓	✓	✓	✓	250 — 250	✓			✓	✓	✱	✓	5,000 — 5K0				✓	✓	✓	✓
3 — 3R0	✓	✓	✓	✓	✓	✓	✓	270 — 270	✓	✓	✓	✓	✓	✱	✓	6,000 — 6K0				✓	✓	✓	✓
4 — 4R0	✓	✱	✓	✓	✓	✱	✓	300 — 300	✓	✓	✓	✓	✓	✱	✓	6,800 — 6K8				✓	✓	✓	✓
5 — 5R0	✓	✓	✓	✓	✓	✓	✓	330 — 330	✓	✓	✓	✓	✓	✱	✓	7,000 — 7K0				✓	✓	✓	✓
7.5 — 7R5	✓	✓	✓	✓	✓	✓	✓	350 — 350	✱		✓	✓	✓	✱	✓	7,500 — 7K5				✓	✓	✓	✓
10 — 10R	✓	✓	✓	✓	✓	✓	✓	390 — 390	✓	✱	✓	✓	✱	✓	✓	8,000 — 8K0				✓	✓	✓	✓
12 — 12R	✱	✱	✓	✓	✓	✓	✓	400 — 400	✱	✱	✓	✓	✓	✱	✓	9,000 — 9K0				✓	✓	✓	✓
15 — 15R	✓	✱	✓	✓	✱	✓	✓	450 — 450	✱	✱	✱	✓	✓	✱	✓	10,000 — 10K				✓	✓	✱	✓
18 — 18R	✓	✱	✓	✓	✓	✓	✓	470 — 470	✓	✓	✓	✓	✓	✱	✓	12,000 — 12K				✓	✓	✓	✓
20 — 20R	✓	✓	✓	✓	✓	✓	✓	500 — 500	✓	✓	✓	✓	✓	✓	✓	13,000 — 13K					✓	✓	✓
22 — 22R	✓	✓	✓	✓	✓	✓	✓	560 — 560	✓	✓	✓	✓	✓	✓	✱	15,000 — 15K					✓	✓	✓
25 — 25R	✱	✓	✓	✓	✓	✓	✓	600 — 600	✓	✓	✓	✓	✓	✱	✓	17,000 — 17K					✓	✓	✓
27 — 27R	✓	✓	✓	✓	✓	✓	✱	680 — 680	✓	✱	✓	✓	✓	✱	✓	20,000 — 20K				✓	✓	✓	✓
30 — 30R	✓	✓	✓	✓	✓	✓	✓	750 — 750	✓	✓	✓	✓	✓	✱	✓	22,000 — 22K					✓	✓	✓
33 — 33R	✓	✓	✓	✓	✓	✓	✓	800 — 800	✓	✱	✓	✓	✓	✱	✓	25,000 — 25K				✓	✓	✓	✓
35 — 35R	✱	✱	✓	✓	✓	✓	✓	820 — 820	✓	✓	✓	✓	✓	✓	✓	30,000 — 30K					✓	✓	✓
39 — 39R	✓	✓	✓	✓	✓	✓	✓	900 — 900	✱	✓	✓	✓	✓	✱	✓	33,000 — 33K						✓	✓
40 — 40R	✓	✓	✱	✓	✓	✓	✓	1,000 — 1K0	✓	✓	✓	✓	✓	✓	✓	35,000 — 35K							✓
47 — 47R	✓	✓	✓	✓	✓	✓	✓	1,100 — 1K1	✱	✱	✓	✓	✓	✓	✓	40,000 — 40K							✓
50 — 50R	✓	✓	✓	✓	✓	✓	✓	1,200 — 1K2	✓	✓	✓	✓	✓	✓	✓	50,000 — 50K							✓
56 — 56R	✱	✓	✓	✓	✓	✓	✓	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.