

20 Series

Vitreous Enamel Conformal Axial Terminal Wirewound, 5% Tolerance Std.



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.

SERIES SPECIFICATIONS

Series	Wattage	Ohms	Max. Voltage*
21	1	1.0-3.0K	75
22	2	1.0-3.0K	65
23	3	0.1-10K	135
25	5	0.1-28K	330
27	7	0.1-25K	450
20	10	0.1-100K	720

12.5 watt size available on special order

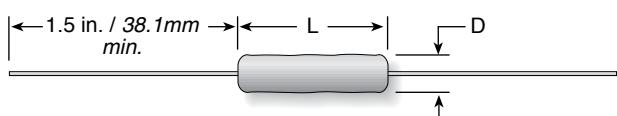
*Maximum Voltage is based on Ohm's Law [$V=\sqrt{(P \cdot R)}$] as limited by the resistance value of specified product

CHARACTERISTICS

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
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

DIMENSIONS

(in./mm max.)



Series	Wattage	Length* (max.)	Diam.* (max.)	Lead ga.
21	1	0.421 / 10.7	0.156 / 4.0	24
22	2	0.421 / 10.7	0.219 / 5.6	20
23	3	0.515 / 13.1	0.220 / 5.6	20
25	5	1.015 / 25.8	0.276 / 7.0	20
27	7	1.265 / 32.1	0.394 / 10.0	20
20	10	1.859 / 47.2	0.394 / 10.0	20

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

(continued)

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ORDERING INFORMATION

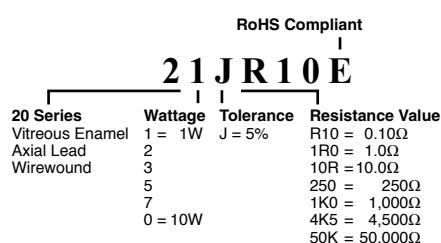
Standard part numbers

Ohmic value	Wattage					Ohmic value	Wattage					Ohmic value	Wattage							
	Part No. Prefix ▶ Suffix ▼		21J—1	22J—2	23J—3	25J—5	Part No. Prefix ▶ Suffix ▼		21J—1	22J—2	23J—3	25J—5	Part No. Prefix ▶ Suffix ▼		21J—1	22J—2	23J—3	25J—5	27J—7	20J—10
	21J—1	22J—2	23J—3	25J—5	20J—10	21J—1	22J—2	23J—3	25J—5	20J—10	21J—1	22J—2	23J—3	25J—5	27J—7	20J—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.



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