

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:

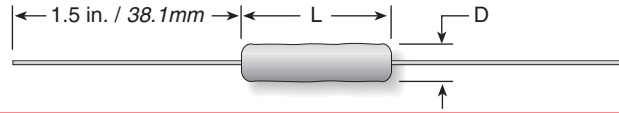
Under 7 watts: 5 times rated wattage for 5 seconds.
7 watts and over: 10 times rated wattage for 5 seconds.

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



20 Series

Vitreous Enamel Conformal Axial Terminal Wirewound, 5% Tolerance Standard



Series	Wattage	Ohms	Dimensions (in./mm max.)		Max.	
			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 $[V = \sqrt{P \cdot R}]$ 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.

ORDERING INFORMATION

RoHS Compliant

21JR10E

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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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