

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

ORDERING INFORMATION

Standard part numbers

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

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9