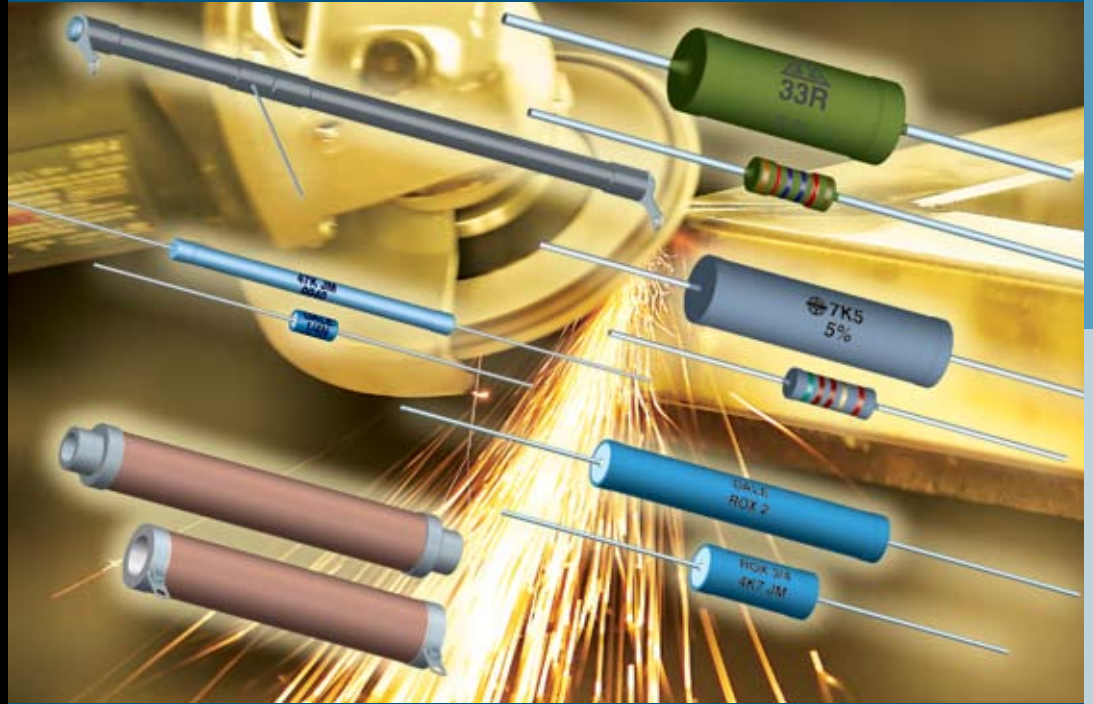




VISHAY INTERTECHNOLOGY, INC.



METAL OXIDE RESISTORS

- RDX
- RJU
- RNX
- ROX
- SXA
- WK/WR



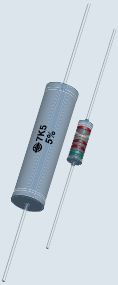


Metal Oxide Resistors

Key Features

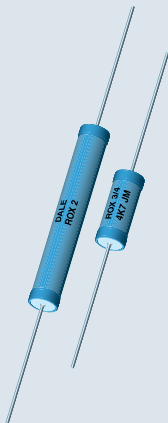
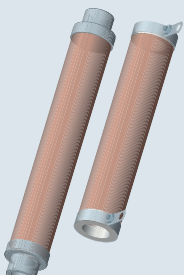

- A wide range of power ratings (0.25 W to 400 W)
- A wide resistance range (0.16 Ω to 10 G Ω)
- Low/high temperature performance (– 55 $^{\circ}\text{C}$ to + 200 $^{\circ}\text{C}$)
- Tight tolerances (down to $\pm 0.5\%$)
- Low temperature coefficients (down to ± 50 ppm/ $^{\circ}\text{C}$)

Applications

- Power supplies
- Refrigerators
- Air conditioners
- Clothes dryers
- Welding equipment
- Car electronics
- High-power, high-voltage applications
- Voltage dividers

Model	Product	Wattage Rating			Resistance Range	TCR (ppm/ $^{\circ}\text{C}$)	Tolerance
		25 $^{\circ}\text{C}$	70 $^{\circ}\text{C}$	125 $^{\circ}\text{C}$			
SXA 	SXA0411				0.16 Ω – 9–53 Ω	± 300	$\pm 5\%$ $\pm 2\%, \pm 5\%$ $\pm 5\%$ $\pm 2\%, \pm 5\%$ $\pm 5\%$ $\pm 2\%$
					10 Ω – 100 K Ω		
	SXA0617				0.16 Ω – 9–53 Ω		
					10 Ω – 100 K Ω		
	SXA0922				5.1 Ω – 68 K Ω		
					10 Ω – 68 K Ω		
WK/WR 	WK2				4.7 Ω – 1 M Ω	± 50 $\pm 100, \pm 200$ ± 200 ± 200 ± 200	$\pm 1\%$ $\pm 5\%$ $\pm 5\%$ $\pm 5\%$ $\pm 5\%$
	WR4				0.18 Ω – 10 M Ω		
	WR5				0.18 Ω – 1 M Ω		
	WK8				0.22 Ω – 560 K Ω		
					0.22 Ω – 100 K Ω		
		25 $^{\circ}\text{C}$	70 $^{\circ}\text{C}$	125 $^{\circ}\text{C}$			
RNX (Non-inductive RNX...N) 	RNX025 (RNX-1/4)	0.5	0.36	0.25	1 K Ω – 100 M Ω	± 200	$\pm 1\%$ standard up to 1 G Ω $\pm 5\%$ above 1 G Ω $\pm 0.5\%$ available for ± 50 ppm/ $^{\circ}\text{C}$ only
					1 K Ω – 100 M Ω	± 100	
	RNX038 (RNX-3/8)	1.0	0.72	0.50	1 M Ω – 22 M Ω	± 50	
					1 K Ω – 1 G Ω	± 200	
	RNX050 (RNX-1/2)	1.2	0.86	0.60	1 K Ω – 100 M Ω	± 100	
					1 M Ω – 50 M Ω	± 50	
	RNX075 (RNX-3/4)	2.0	1.44	1.0	1 K Ω – 2 G Ω	± 200	
					1 K Ω – 250 M Ω	± 100	
	RNX100 (RNX-1)	2.5	1.80	1.25	1 M Ω – 100 M Ω	± 50	
					1 K Ω – 2 G Ω	± 200	
RNX125 (RNX-1-1/4)	3.0	2.16	1.50	1 K Ω – 500 M Ω	± 100		
RNX 150 (RNX-1-1/2)	4.0	2.88	2.0	1 M Ω – 100 M Ω	± 50		
RNX200 (RNX-2)	5.0	3.60	2.5	1 K Ω – 2 G Ω	± 200		
				1 K Ω – 500 M Ω	± 100		



Model	Product	Wattage Rating			Resistance Range		TCR (ppm/°C)	Tolerance
		25 °C	70 °C	125 °C				
ROX (Non-inductive ROX...N) 	ROX050 (ROX-1/2)	2.0	1.4	1	1 KΩ – 1 GΩ 1 KΩ – 100 MΩ 1 MΩ – 100 MΩ	± 200 ± 100 ± 50	± 1 %, ± 2 %, ± 5 %, ± 10 %	
	ROX075 (ROX-3/4)	3.0	2.16	1.5	1 KΩ – 3 GΩ 1 KΩ – 500 MΩ 1 MΩ – 100 MΩ	± 200 ± 100 ± 50		
	ROX100 (ROX-1)	4.0	2.88	2	1 KΩ – 3 GΩ 1 KΩ – 500 MΩ 1 MΩ – 100 MΩ	± 200 ± 100 ± 50		
	ROX150 (ROX-1-1/2)	5.0	3.6	2.5	1 KΩ – 3 GΩ 1 KΩ – 500 MΩ 1 MΩ – 100 MΩ	± 200 ± 100 ± 50		
	ROX200 (ROX-2)	6.0	4.32	3	1 KΩ – 3 GΩ 1 KΩ – 1 GΩ 1 MΩ – 500 MΩ	± 200 ± 100 ± 50		
	ROX300 (ROX-3)	10.0	7.2	5	1 KΩ – 3 GΩ 1 KΩ – 1 GΩ 1 MΩ – 500 MΩ	± 200 ± 100 ± 50		
	ROX400 (ROX-4)	12.0	8.64	6	1 KΩ – 3 GΩ 1 KΩ – 1 GΩ 1 MΩ – 500 MΩ	± 200 ± 100 ± 50		
	ROX500 (ROX-5)	16.0	11.52	8	1 KΩ – 3 GΩ 1 KΩ – 1 GΩ 1 MΩ – 500 MΩ	± 200 ± 100 ± 50		
	ROX600 (ROX-6)	20	14.4	10	1 KΩ – 3 GΩ 1 KΩ – 1 GΩ 1 MΩ – 500 MΩ	± 200 ± 100 ± 50		
RJU 	RJU040	40			1 KΩ – 1 GΩ	± 200, ± 100	± 1 %, ± 2 %, ± 5 %, ± 10 %	
	RJU050	50			1 KΩ – 1 GΩ			
	RJU070	70			1 KΩ – 1 GΩ			
	RJU095/RJU095...1	95			1 KΩ – 1 GΩ			
	RJU140/RJU140...1	140			1 KΩ – 1 GΩ			
	RJU150/RJU150...1	150			100 KΩ – 1 GΩ			
	RJU275/RJU275...1	275			100 KΩ – 1 GΩ			
RJU400/RJU400...1	400			100 KΩ – 1 GΩ				
RDX 					Min R1	Max R2		
	RDX2 RDX3 RDX4 RDX5 RDX6 RDX7			4 5 7 8 10 12	2 KΩ 3 KΩ 4 KΩ 5 KΩ 6 KΩ 7 KΩ	2 GΩ 10 GΩ 10 GΩ 10 GΩ 10 GΩ 10 GΩ	± 200 standard ± 100 available	± 1 %

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