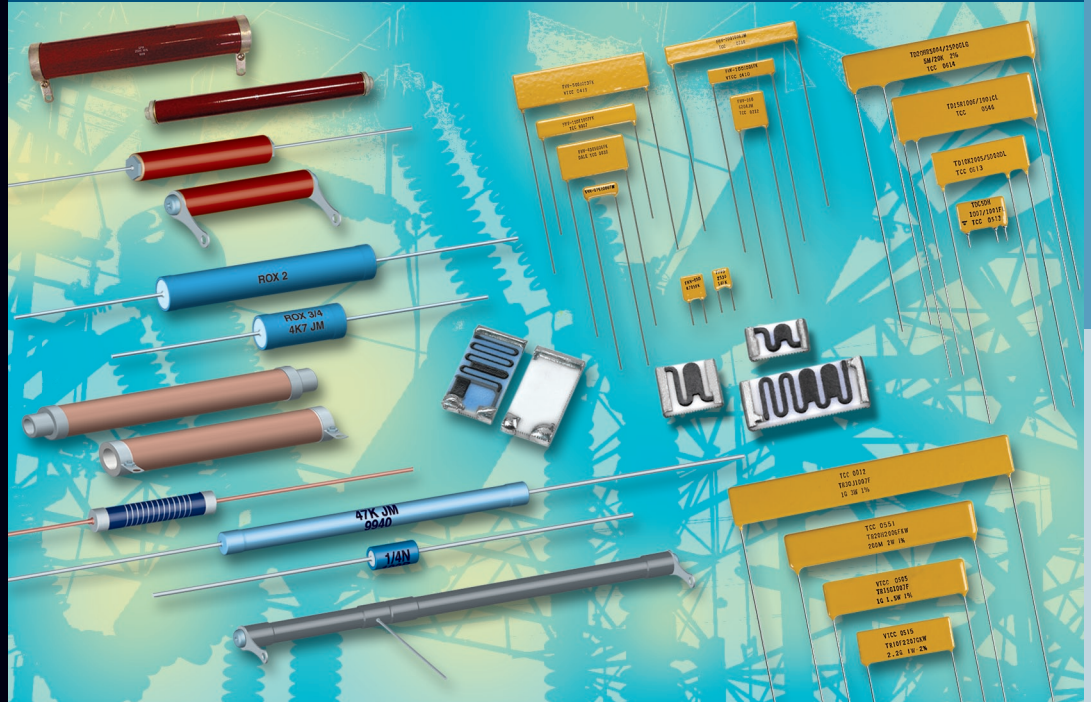




VISHAY INTERTECHNOLOGY, INC.

RESISTIVE PRODUCTS

SELECTOR GUIDE



HIGH VOLTAGE PRODUCTS

- B, T
- CRHV
- CDHV
- D, G
- FHV
- HVW, MVW
- RNX
- ROX
- RJU
- RDX
- TR
- TD





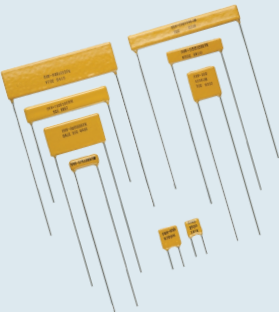


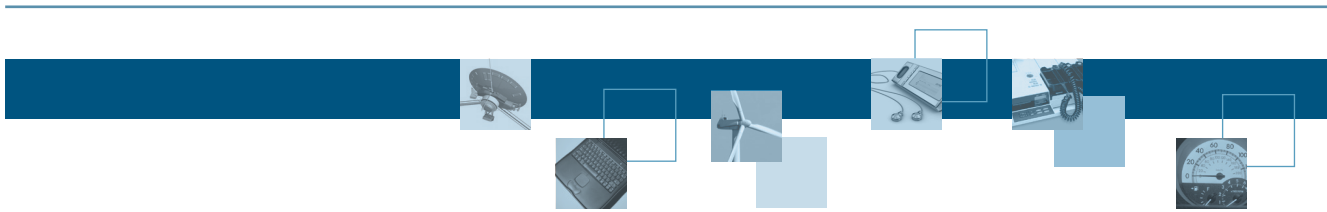
High-Voltage Products



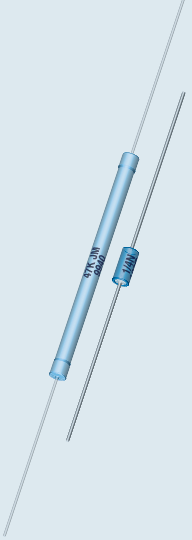
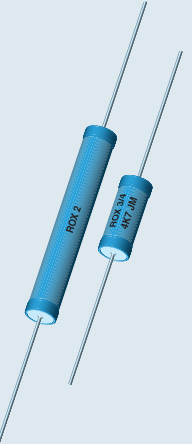
Applications

High voltage, voltage dividers, ultra-high-power, high-power, lighting, general, and special purpose applications.

Surface-Mount High-Voltage Chip Resistors								
Product	Model	Power Rating (W)			Voltage Rating (V)	Value Range (Ω)	TC (ppm/°C)	Tolerance (± %)
		25 °C	70 °C	125 °C				
CRHV 	CRHV1206		0.3		1.5 kV	2 M – 8 G	± 100	1 %, 2 %, 5 %, 10 %, 20 %
	CRHV1210		0.45		1.75 kV	4 M – 10 G		
	CRHV2010		0.5		2 kV	6 M – 35 G		
	CRHV2510		0.6		2.5 kV	10 M – 40 G		
	CRHV2512		0.7		3 kV	12 M – 50 G		
CDHV 	CDHV2512				3 kV	1 M – 20 G		1 %, 2 %, 5 %, 10 %, 20 %
Through-Hole High-Voltage Thick Film Resistors								
TR 	TR03	0.25			2.5 kV	300 – 10 G	< ± 100 (for values > 1G, consult factory)	1 %, 2 %, 5 %, 10 %, 20 %
	TR05	0.5			5 kV	500 – 100 G		
	TR10	1			10 kV	1 k – 1 T		
	TR15	1.5			15 kV	1.5 k – 1.5 T		
	TR20	2			20 kV	2 k – 2 T		
	TR30	3			30 kV	3 k – 3 T		
TD 	TD03	0.25			2.5 kV	300 – 10 G	< ± 100 (for values > 1G, consult factory)	1 %, 2 %, 5 %, 10 %, 20 %
	TD05	0.5			5 kV	500 – 100 G		
	TD10	1			10 kV	1 k – 1 T		
	TD15	1.5			15 kV	1.5 k – 1.5 T		
	TD20	2			20 kV	2 k – 2 T		
	TD30	3			30 kV	3 k – 3 T		
FHV 	FHV025		0.25	0.125	.75 kV	10 k – 100 M	± 200	
						10 k – 100 M	± 100	
	FHV050		0.5	0.25	1.5 kV	10 k – 500 M	± 200	
						10 k – 100 M	± 100	
	FHV075		0.25	0.125	3.75 kV	100 – 1 G	± 200	
						500 – 500 M	± 100	
	FHV100		1	0.5	7.5 kV	100 – 2 G	± 200	
						500 – 1 G	± 100	
	FHV150		1.5	0.75	11.25 kV	10 k – 2 G	± 200	
						1 M – 1 G	± 100	
	FHV160		1	0.5	3.5 kV	100 – 2 G	± 200	
						500 – 1 G	± 100	
	FHV200		2	1	15 kV	200 – 8 G	± 200	
						500 M – 1 G	± 100	
FHV400		2	1	7.5 kV	20 k – 2 G	± 200		
					1 M – 1 G	± 100		
FHV500		4	2	15 kV	30 k – 10 G	± 200		
					1 M – 1 G	± 100		



Through-Hole High-Voltage Metal Oxide Resistors

Product	Model	Power Rating (W)			Voltage Rating (V)	Value Range (Ω)	TC (ppm/ $^{\circ}$ C)	Tolerance (\pm %)
		25 $^{\circ}$ C	70 $^{\circ}$ C	125 $^{\circ}$ C				
RNX (Non-inductive RNX...N) 	RNX025	0.5	0.36	0.25	750 V	1 k – 100 M	\pm 200	\pm 1 % standard up to 1 G Ω , \pm 5 % above 1 G Ω , \pm 0.5 % available for \pm 50 ppm/ $^{\circ}$ C only
						1 k – 100 M	\pm 100	
						1 M – 22 M	\pm 50	
	RNX038	1	0.72	0.5	1.5 kV	1 k – 1 G	\pm 200	
						1 k – 100 M	\pm 100	
						1 M – 50 M	\pm 50	
	RNX050	1.2	0.86	0.6	2 kV	1 k – 2 G	\pm 200	
						1 k – 250 M	\pm 100	
						1 M – 100 M	\pm 50	
	RNX075	2	1.44	1	3 kV	1 k – 2 G	\pm 200	
						1 k – 500 M	\pm 100	
						1 M – 100 M	\pm 50	
	RNX100	2.5	1.8	1.25	4 kV	1 k – 2 G	\pm 200	
						1 k – 500 M	\pm 100	
1 M – 100 M						\pm 50		
RNX125	3	2.16	1.5	5 kV	1 k – 2 G	\pm 200		
					1 k – 500 M	\pm 100		
RNX150	4	2.88	2	6 kV	1 k – 2 G	\pm 200		
					1 k – 500 M	\pm 100		
RNX200	5	3.6	2.5	8 kV	1 k – 2 G	\pm 200		
					1 k – 500 M	\pm 100		
ROX (Non-inductive ROX...N) 	ROX050	2	1.4	1	2 kV	1 k – 1 G	\pm 200	1 %, 2 %, 5 %, 10 %
						1 k – 100 M	\pm 100	
						1 M – 100 M	\pm 50	
	ROX075	3	2.16	1.5	5 kV	1 k – 3 G	\pm 200	
						1 k – 500 M	\pm 100	
						1 M – 100 M	\pm 50	
	ROX100	4	2.88	2	7.5 kV	1 k – 3 G	\pm 200	
						1 k – 500 M	\pm 100	
						1 M – 100 M	\pm 50	
	ROX150	5	3.6	2.5	11 kV	1 k – 3 G	\pm 200	
						1 k – 500 M	\pm 100	
						1 M – 100 M	\pm 50	
	ROX200	6	4.32	3	15 kV	1 k – 3 G	\pm 200	
						1 k – 1 G	\pm 100	
1 M – 500 M						\pm 50		
ROX300	10	7.2	5	22.5 kV	1 k – 3 G	\pm 200		
					1 k – 1 G	\pm 100		
					1 M – 500 M	\pm 50		
ROX400	12	8.64	6	30 kV	1 k – 3 G	\pm 200		
					1 k – 1 G	\pm 100		
					1 M – 500 M	\pm 50		



Through-Hole High-Voltage Metal Oxide Resistors (cont.)

Product	Model	Power Rating (W)			Voltage Rating (V)	Value Range (Ω)		TC (ppm/ $^{\circ}$ C)	Tolerance (\pm %)
		25 $^{\circ}$ C	70 $^{\circ}$ C	125 $^{\circ}$ C					
ROX (Non-inductive ROX...N) 	ROX500	16	11.52	8	37.5 kV	1 k – 3 G		\pm 200	1 %, 2 %, 5 %, 10 %
						1 k – 1 G		\pm 100	
						1 M – 500 M		\pm 50	
	ROX600	20	14.4	10	45 kV	1 k – 3 G		\pm 200	
						1 k – 1 G		\pm 100	
1 M – 500 M		\pm 50							
RJU 	RJU040	40			25 kV	1 k – 1 G		\pm 200, \pm 100	1 %, 2 %, 5 %, 10 %
	RJU050	50			33 kV	1 k – 1 G			
	RJU070	70			40 kV	1 k – 1 G			
	RJU095/RJU095..1	95			35 kV	1 k – 1 G			
	RJU140/RJU140..1	140			65 kV	1 k – 1 G			
	RJU150/RJU150..1	150			90 kV	100 k – 1 G			
	RJU275/RJU275..1	275			40 kV	100 k – 1 G			
	RJU400/RJU400..1	400			125 kV	100 k – 1 G			
RDX 						MinR1	MinR2	\pm 200, (\pm 100*)	1 %
	RDX2			4	15 kV	2 k	2 G		
	RDX3			5	22.5 kV	3 k	10 G		
	RDX4			7	30 kV	4 k	10 G		
	RDX5			8	37.5 kV	5 k	10 G		
	RDX6			10	45 kV	6 k	10 G		
	RDX7			12	52.5 kV	7 k	10 G		

Through-Hole High-Voltage Metal Alloy Resistors

HVW, MVW (Blue flameproof coating HVX) 	HVW1/2		1		3.5 kV	1 k – 25 M		\pm 5 %, \pm 10 %, \pm 20 %
	MVW1/2		1		3.5 kV	1 k – 25 M		
	HVW3/4		1.5		7.5 kV	1 k – 50 M		
	MVW3/4		1.5		7.5 kV	1 k – 50 M		
	HVW001		2.5		7.5 kV	1 k – 75 M		
	HVW002		5		15 kV	1 k – 200 M		

Through-Hole High-Voltage Carbon Film Resistors

B, T 	BAEW	0.5			2.5 kV	50 k – 500 M		\pm 20 % (\pm 5 %, \pm 10 %, \pm 15 %*)
	BAKW	1			5 kV	100 k – 500 M		
	BBF, BBFW	1			3.5 kV	50 k – 500 M		
	BBM, BBMW	2			7.5 kV	50 k – 500 M		
	BBR, BBRW	3			15 kV	100 k – 500 M		
	BBV	5			30 kV	200 k – 500 M		
	BFQ	4			15 kV	100 k – 500 M		
	BFT	6			25 kV	200 k – 500 M		
	BFW	10			40 kV	400 k – 500 M		
	TAKW	1.5			7.5 kV	1 M – 500 M		


* Tolerances/TCs in parenthesis are available upon request



High Voltage Products



Through-Hole High-Voltage Carbon Film Resistors (cont.)

Product	Model	Power Rating (W)	Voltage Rating (V)	Value Range (Ω)	TC (ppm/ $^{\circ}$ C)	Tolerance (\pm %)
		25 $^{\circ}$ C				
D, G 	DJU	10	25 kV	50 k – 500 M		\pm 20 % (\pm 5 %, \pm 10 %, \pm 15 %*)
	DPW/DPW..1	20	35 kV	100 k – 500 M		
	DPX/DPX..1	30	65 kV	100 k – 500 M		
	DVY/DVY..1	60	90 kV	400 k – 500 M		
	DZW/DZW..1	35	40 kV	300 k – 500 M		
	DZZ/DZZ..1	100	125 kV	700 k – 500 M		
	GJU	10	16 kV	1 k – 1 M		
	GPW/GPW..1	20	18 kV	1 k – 1 M		
	GPX/GPX..1	30	25 kV	1 k – 1 M		
	GVY/GVY..1	60	30 kV	1 k – 5 M		
	GZW/GZW..1	35	20 kV	1 k – 1 M		
	GZZ/GZZ..1	100	32 kV	1 k – 10 M		

* Tolerances/TCs in parenthesis are available upon request

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