



Pulse Proof, 1% High Power Thick-Film Chip Resistors
CRCW Series 0402 / 0603 / 0805 / 1206 / 2010 / 2512

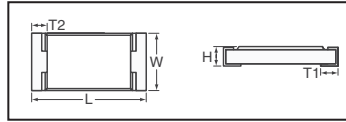


Features:

- Excellent pulse load capability • Enhanced power rating
- Double side printed resistor element • Protective overglaze
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q200 qualified, rev. C compliant

Specifications:

• Insulation Resistance: >10⁹Ω • Category Temperature Range: -55°C ~ 155°C



Size Code	Dimensions – mm				
	L	W	H	T1	T2
0402	1.0±0.05	0.5±0.05	0.3±0.1	0.25±0.1	0.2±0.1
0603	1.6±0.1	0.85±0.1	0.45±0.1	0.3±0.2	0.3±0.2
0805	2.0±0.15	1.25±0.15	0.50±0.1	0.4±0.2	0.35±0.2
1206	3.1±0.2	1.6±0.15	0.50±0.15	0.5±0.2	0.45±0.2
2010	5.0±0.15	2.5±0.15	0.6±0.1	0.6±0.2	0.6±0.2
2512	6.3±0.2	3.15±0.15	0.6±0.1	0.6±0.2	0.6±0.2

CRCW 1% 1/8W — 0402 Series Resistor Values

0.0 1.00 10.0 22.0 22.1 33.0 33.2 49.9 75.0 100 499 1.00K 1.50K 2.00K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 47.0K 49.9K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					10	50	200			
0402, 1/8 Watt, 0.00 Jumper	0.0	50	0.125	541-0.0YBCT-ND	1.23	3.31	7.60	541-0.0YBTR-ND	15.22/M	CRCW04020000Z0EADHP
1%, 0402, 1/8 Watt	1.00	50	0.125	541-1.00YCT-ND	1.38	3.71	8.51	541-1.00YTR-ND	18.42/M	CRCW04021R00FKEDHP
1%, 0402, 1/8 Watt	10.0 ~ 1.00M	50	0.125	541-(Value)YCT-ND	1.32	3.56	8.17	541-(Value)YTR-ND	17.62/M	CRCW0402xxxxFKEDHP

CRCW 1% 1/4W — 0603 Series Resistor Values

0.0 1.00 10.0 33.0 33.2 49.9 75.0 100 499 1.00K 1.50K 2.00K 4.22K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 30.9K 47.0K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing 5,000			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
0603, 1/4 Watt, 0.00 Jumper	0.0	75	0.25	541-0.0SBCT-ND	1.51	4.05	9.31	541-0.0SBTR-ND	23.23/M	CRCW06030000Z0EAHP
1%, 0603, 1/4 Watt	1.00	75	0.25	541-1.00SCT-ND	1.62	4.35	9.99	541-1.00STR-ND	25.63/M	CRCW06031R00FKEAHP
1%, 0603, 1/4 Watt	10.0 ~ 1.00M	75	0.25	541-(Value)SCT-ND	1.59	4.30	9.87	541-(Value)STR-ND	25.63/M	CRCW0603xxxxFKEAHP

CRCW 1% 1/3W — 0805 Series Resistor Values

0.0 1.00 10.0 33.2 49.9 51.0 75.0 100 150 470 499 1.00K 1.50K 2.00K 2.20K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 27.0K 47.0K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
0805, 1/3 Watt, 0.00 Jumper	0.0	150	0.33	541-0.0TBCT-ND	2.02	5.43	12.48	541-0.0TBTR-ND	34.44/M	CRCW08050000Z0EAHP
1%, 0805, 1/3 Watt	1.00	150	0.33	541-1.00TCT-ND	2.19	5.88	13.50	541-1.00TTR-ND	37.64/M	CRCW08051R00FKEAHP
1%, 0805, 1/3 Watt	10.0 ~ 1.00M	150	0.33	541-(Value)TCT-ND	2.16	5.83	13.39	541-(Value)TTR-ND	37.64/M	CRCW0805xxxxFKEAHP

CRCW 1% 1/2W — 1206 Series Resistor Values

0.0 1.00 10.0 33.2 49.9 75.0 100 150 200 220 470 680 750 1.00K 1.20K 1.30K 1.50K 2.00K 4.70K 4.75K 4.99K 10.0K 15.0K 20.0K 47.0K 100K 1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Vishay Part No.
					10	50	200			
1206, 1/2 Watt, 0.00 Jumper	0.0	200	0.5	541-0.0UBCT-ND	3.64	9.78	22.46	541-0.0UBTR-ND	69.67/M	CRCW12060000Z0EAHP
1%, 1206, 1/2 Watt	1.00	200	0.5	541-1.00UCT-ND	4.32	11.60	26.66	541-1.00UTR-ND	84.89/M	CRCW12061R00FKEAHP
1%, 1206, 1/2 Watt	10.0 ~ 1.00M	200	0.5	541-(Value)UCT-ND	4.09	11.01	25.30	541-(Value)UTR-ND	80.08/M	CRCW1206xxxxFKEAHP

CRCW 1% 1W — 2010 Series Resistor Values

0.0 1.00 3.30 10.0 33.2 47.0 49.9 75.0 100 220 402 430 499 510 560 620 1.00K 1.20K 1.50K 1.87K 2.00K 2.70K 4.70K 10.0K 15.0K 100K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Vishay Part No.
					10	50	200			
2010, 1 Watt, 0.00 Jumper	0.0	400	1.0	541-0.0PBCT-ND	7.93	21.33	49.01	541-0.0PBTR-ND	163.37/M	CRCW20100000Z0EFHP
1%, 2010, 1 Watt	1.00 ~ 3.30	400	1.0	541-(Value)PCT-ND	10.55	28.40	65.23	541-(Value)PTR-ND	220.22/M	CRCW2010xxxxFKEFHP
1%, 2010, 1 Watt	10.0 ~ 100K	400	1.0	541-(Value)PCT-ND	10.43	28.05	64.44	541-(Value)PTR-ND	217.82/M	CRCW2010xxxxFKEFHP

CRCW 1% 1.5W — 2512 Series Resistor Values

0.0 1.00 3.30 10.0 13.0 30.1 33.0 47.0 49.9 68.0 75.0 100 121 150 200 499 750 1.00K 1.21K 1.50K 2.00K 4.70K 10.0K

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 2,000	Vishay Part No.
					10	50	200			
2512, 1.5 Watt, 0.00 Jumper	0.0	500	1.5	541-0.0RBCCT-ND	12.66	34.07	78.28	541-0.0RBTR-ND	266.67/M	CRCW25120000Z0EGHP
1%, 2512, 1.5 Watt	1.00 ~ 3.30	500	1.5	541-(Value)RCT-ND	17.56	47.26	108.57	541-(Value)RTR-ND	373.98/M	CRCW2512xxxxFKEGHP
1%, 2512, 1.5 Watt	10.0 ~ 10.0K	500	1.5	541-(Value)RCT-ND	16.52	44.44	102.10	541-(Value)RTR-ND	350.75/M	CRCW2512xxxxFKEGHP

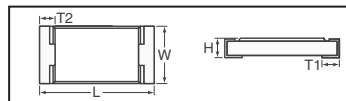
Pulse Proof, 5% High Power Thick-Film Chip Resistors
CRCW Series 0402 / 0603 / 0805 / 1206 / 2010 / 2512



Features:

- Excellent pulse load capability • Enhanced power rating
- Double side printed resistor element • Protective overglaze
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q200 qualified, rev. C compliant

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1206	3.1±0.2	1.6±0.15	0.50±0.15	0.5±0.2	0.45±0.2
2010	5.0±0.15	2.5±0.15	0.6±0.1	0.6±0.2	0.6±0.2
2512	6.3±0.2	3.15±0.15	0.6±0.1	0.6±0.2	0.6±0.2

CRCW 5% 1/8W — 0402 Series Resistor Values

1.0 2.2 4.7 10 22 47 100 220 470 1.0K 2.2K 4.7K 10K 22K 47K 100K 220K 470K 1.0M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @ 70°C (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	Vishay Part No.
					10	50	200			
5%, 0402, 1/8 Watt	1.0 ~ 4.7	50	0.125	541-(Value)YACT-ND	1.31	3.51	8.06	541-(Value)YATR-ND	16.82/M	CRCW0402xxxxJNEDHP
5%, 0402, 1/8 Watt	10 ~ 1.0M	50	0.125	541-(Value)YACT-ND	1.23	3.31	7.60	541-(Value)YATR-ND	15.22/M	CRCW0402xxxxJNEDHP

(Continued)

Digi-Reel[®] Most SMT cutdown parts are available on a Digi-Reel[®]. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key[®] Services on page 2 for additional information.

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