



Surface Mount, 1% Thick-Film Chip Resistors
CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512 (Cont.)



CRCW 1% 3/4W – 2010 Series Resistor Values

| | | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.00 | 16.2 | 27.4 | 46.4 | 75.0 | 127 | 215 | 365 | 590 | 1.00K | 1.69K | 2.87K | 4.87K | 7.87K | 13.3K | 22.6K | 38.3K | 61.9K | 105K | 178K | 301K | 499K | 825K |
| 10.0 | 16.9 | 28.7 | 48.7 | 78.7 | 133 | 226 | 383 | 619 | 1.05K | 1.78K | 3.01K | 4.99K | 8.25K | 14.0K | 23.7K | 40.2K | 64.9K | 110K | 187K | 316K | 511K | 866K |
| 10.5 | 17.8 | 30.1 | 49.9 | 82.5 | 140 | 237 | 402 | 649 | 1.10K | 1.87K | 3.16K | 5.11K | 8.66K | 14.7K | 24.9K | 42.2K | 68.1K | 115K | 196K | 332K | 536K | 909K |
| 11.0 | 18.7 | 31.6 | 51.1 | 86.6 | 147 | 249 | 422 | 681 | 1.15K | 1.96K | 3.32K | 5.36K | 9.09K | 15.4K | 26.1K | 44.2K | 71.5K | 121K | 205K | 348K | 562K | 953K |
| 11.5 | 19.6 | 33.2 | 53.6 | 90.9 | 154 | 261 | 442 | 715 | 1.21K | 2.05K | 3.48K | 5.62K | 9.53K | 16.2K | 27.4K | 46.4K | 75.0K | 127K | 215K | 365K | 590K | 1.0M |
| 12.1 | 20.5 | 34.8 | 56.2 | 95.3 | 162 | 274 | 464 | 750 | 1.27K | 2.15K | 3.65K | 5.90K | 10.0K | 16.9K | 28.7K | 48.7K | 78.7K | 133K | 226K | 383K | 619K | |
| 12.7 | 21.5 | 36.5 | 59.0 | 100 | 169 | 287 | 487 | 787 | 1.33K | 2.26K | 3.83K | 6.19K | 10.5K | 17.8K | 30.1K | 49.9K | 82.5K | 140K | 237K | 402K | 649K | |
| 13.3 | 22.6 | 38.3 | 61.9 | 105 | 178 | 301 | 499 | 825 | 1.40K | 2.37K | 4.02K | 6.49K | 11.0K | 18.7K | 31.6K | 51.1K | 86.6K | 147K | 249K | 422K | 681K | |
| 14.0 | 23.7 | 40.2 | 64.9 | 110 | 187 | 316 | 511 | 866 | 1.47K | 2.49K | 4.22K | 6.81K | 11.5K | 19.6K | 33.2K | 53.6K | 90.9K | 154K | 261K | 442K | 715K | |
| 14.7 | 24.9 | 42.2 | 68.1 | 115 | 196 | 332 | 536 | 909 | 1.54K | 2.61K | 4.42K | 7.15K | 12.1K | 20.5K | 34.8K | 56.2K | 95.3K | 162K | 274K | 464K | 750K | |
| 15.4 | 26.1 | 44.2 | 71.5 | 121 | 205 | 348 | 562 | 953 | 1.62K | 2.74K | 4.64K | 7.50K | 12.7K | 21.5K | 36.5K | 59.0K | 100K | 169K | 287K | 487K | 787K | |

| Description | Value Range (Ω) | TCR (ppm) | Rated Voltage (V) | Rated Power @ 70°C | Dimensions - mm | | | | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape & Reel Pricing 4,000 | Vishay Part No. |
|-------------------|-----------------|-----------|-------------------|--------------------|-----------------|-----|-----|-----|--------------------|------------------|------|-------|--------------------|---------------------------|-------------------|
| | | | | | W | L | T | tb | | 10 | 50 | 200 | | | |
| 1% 2010, 3/4 Watt | 1.00 | ±200 | 400 | 0.5 | 2.5 | 5.0 | 0.6 | 0.6 | 541-1.00ACCT-ND | 3.20 | 8.59 | 19.74 | 541-1.00ACTR-ND | 60.06/M | CRCW20101R00FNEF |
| 1% 2010, 3/4 Watt | 1.00 | ±100 | 400 | 0.5 | 2.5 | 5.0 | 0.6 | 0.6 | 541-1.00AACCT-ND | 2.64 | 7.11 | 16.34 | 541-1.00AACTR-ND | 48.05/M | CRCW20101R00FKEF |
| 1% 2010, 3/4 Watt | 10.0 - 1.0M | ±100 | 400 | 0.5 | 2.5 | 5.0 | 0.6 | 0.6 | 541-(Value)ACCT-ND | 2.64 | 7.11 | 16.34 | 541-(Value)ACTR-ND | 48.05/M | CRCW20101xxxxFKEF |

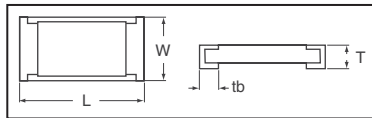
CRCW 1% 1W – 2512 Series Resistor Values

| | | | | | | | | | | | | | | |
|------|------|------|-----|-----|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1.00 | 21.5 | 48.7 | 105 | 237 | 511 | 1.15K | 2.61K | 5.62K | 12.7K | 28.7K | 61.9K | 140K | 316K | 681K |
| 10.0 | 22.6 | 49.9 | 110 | 249 | 536 | 1.21K | 2.74K | 5.90K | 13.3K | 30.1K | 64.9K | 147K | 332K | 715K |
| 10.5 | 23.7 | 51.1 | 115 | 261 | 562 | 1.27K | 2.87K | 6.19K | 14.0K | 31.6K | 68.1K | 154K | 348K | 750K |
| 11.0 | 24.9 | 53.6 | 121 | 274 | 590 | 1.33K | 3.01K | 6.49K | 14.7K | 33.2K | 71.5K | 162K | 365K | 787K |
| 11.5 | 26.1 | 56.2 | 127 | 287 | 619 | 1.40K | 3.16K | 6.81K | 15.4K | 34.8K | 75.0K | 169K | 383K | 825K |
| 12.1 | 27.4 | 59.0 | 133 | 301 | 649 | 1.47K | 3.32K | 7.15K | 16.2K | 36.5K | 78.7K | 178K | 402K | 866K |
| 12.7 | 28.7 | 61.9 | 140 | 316 | 681 | 1.54K | 3.48K | 7.50K | 16.9K | 38.3K | 82.5K | 187K | 422K | 909K |
| 13.3 | 30.1 | 64.9 | 147 | 332 | 715 | 1.62K | 3.65K | 7.87K | 17.8K | 40.2K | 86.6K | 196K | 442K | 953K |
| 14.0 | 31.6 | 68.1 | 154 | 348 | 750 | 1.69K | 3.83K | 8.25K | 18.7K | 42.2K | 90.9K | 205K | 464K | 1.0M |
| 14.7 | 33.2 | 71.5 | 162 | 365 | 787 | 1.78K | 4.02K | 8.66K | 19.6K | 44.2K | 95.3K | 215K | 487K | |
| 15.4 | 34.8 | 75.0 | 169 | 383 | 825 | 1.87K | 4.22K | 9.09K | 20.5K | 46.4K | 100K | 226K | 499K | |
| 16.2 | 36.5 | 78.7 | 178 | 402 | 866 | 1.96K | 4.42K | 9.53K | 21.5K | 48.7K | 105K | 237K | 511K | |
| 16.9 | 38.3 | 82.5 | 187 | 422 | 909 | 2.05K | 4.64K | 10.0K | 22.6K | 49.9K | 110K | 249K | 536K | |
| 17.8 | 40.2 | 86.6 | 196 | 442 | 953 | 2.15K | 4.87K | 10.5K | 23.7K | 51.1K | 115K | 261K | 562K | |
| 18.7 | 42.2 | 90.9 | 205 | 464 | 1.00K | 2.26K | 4.99K | 11.0K | 24.9K | 53.6K | 121K | 274K | 590K | |
| 19.6 | 44.2 | 95.3 | 215 | 487 | 1.05K | 2.37K | 5.11K | 11.5K | 26.1K | 56.2K | 127K | 287K | 619K | |
| 20.5 | 46.4 | 100 | 226 | 499 | 1.10K | 2.49K | 5.36K | 12.1K | 27.4K | 59.0K | 133K | 301K | 649K | |

| Description | Value Range (Ω) | TCR (ppm) | Rated Voltage (V) | Rated Power @ 70°C | Dimensions - mm | | | | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape & Reel Pricing 2,000 | Vishay Part No. |
|----------------|-----------------|-----------|-------------------|--------------------|-----------------|-----|-----|-----|--------------------|------------------|-------|-------|--------------------|---------------------------|------------------|
| | | | | | W | L | T | tb | | 10 | 50 | 200 | | | |
| 1% 2512, 1Watt | 1.00 | ±200 | 500 | 1.0 | 3.15 | 6.3 | 0.6 | 0.6 | 541-1.00AFCT-ND | 3.75 | 10.07 | 23.14 | 541-1.00AFTR-ND | 72.07/M | CRCW25121R00FNEG |
| 1% 2512, 1Watt | 1.00 | ±100 | 500 | 1.0 | 3.15 | 6.3 | 0.6 | 0.6 | 541-1.00AAFCT-ND | 3.20 | 8.59 | 19.74 | 541-1.00AAFTR-ND | 60.06/M | CRCW25121R00FKEG |
| 1% 2512, 1Watt | 10.0 - 1.0M | ±100 | 500 | 1.0 | 3.15 | 6.3 | 0.6 | 0.6 | 541-(Value)AFCT-ND | 3.20 | 8.59 | 19.74 | 541-(Value)AFTR-ND | 60.06/M | CRCW2512xxxxFKEG |



Surface Mount, 5% Thick-Film Chip Resistors
CRCW Series 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512



| Size Code | TEMPERATURE COEFFICIENT (ppm/K) | | | | | | | | | | | | | | | | |
|----------------------|---------------------------------|------|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|
| | 0201 | | 0402 | | 0603 | | 0805 | | 1206 | | 1210 | | 2010 | | 2512 | | |
| Resistance Range (Ω) | 1% | 5% | 1% | 5% | 1% | 5% | 1% | 5% | 1% | 5% | 1% | 5% | 1% | 5% | 1% | 5% | |
| 1 - 9.76 | — | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 |
| 1 - 10M | — | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 | — | ±200 |
| 10 - 1M | ±200 | ±200 | — | — | — | — | — | — | — | — | ±100 | — | ±100 | — | ±100 | — | ±100 |
| 10 - 10M | — | — | ±100 | — | ±100 | — | ±100 | — | ±100 | — | — | — | — | — | — | — | — |

CRCW 5% 1/20W – 0201 Series Resistor Values

| | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|------|------|------|------|
| 0.0 | 22 | 47 | 68 | 82 | 220 | 470 | 680 | 1.0K | 3.3K | 5.6K | 8.2K | 22K | 47K | 68K | 100K | 330K | 560K | 820K |
| 10 | 33 | 56 | 75 | 100 | 330 | 560 | 820 | 2.2K | 4.7K | 6.8K | 10K | 33K | 56K | 82K | 220K | 470K | 680K | |

| Description | Value Range (Ω) | TCR (ppm) | Rated Voltage (V) | Rated Power @ 70°C | Dimensions - mm | | | | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape & Reel Pricing 10,000 | Vishay Part No. |
|----------------------------|-----------------|-----------|-------------------|--------------------|-----------------|-----|------|------|--------------------|------------------|------|------|--------------------|----------------------------|------------------|
| | | | | | W | L | T | tb | | 10 | 50 | 200 | | | |
| 0201, 1/20 Watt, 0Ω Jumper | 0.0 | 0 | 30 | 0.05 | 0.3 | 0.6 | 0.43 | 0.28 | 541-0.0AGCT-ND | 1.53 | 4.12 | 9.47 | 541-0.0AGTR-ND | 21.63/M | CRCW0201xxxxZ0ED |
| 5% 0201, 1/20 Watt | 10 - 820K | ±200 | 30 | 0.05 | 0.3 | 0.6 | 0.43 | 0.28 | 541-(Value)AGCT-ND | 1.53 | 4.12 | 9.47 | 541-(Value)AGTR-ND | 21.63/M | CRCW0201xxxxJNED |

CRCW 5% 1/16W – 0402 Series Resistor Values

| | | | | | | | | | | | | | | |
|-----|-----|-----|----|-----|-----|------|------|------|-----|------|------|------|------|------|
| 0.0 | 3.0 | 9.1 | 30 | 91 | 300 | 910 | 3.0K | 9.1K | 30K | 91K | 300K | 910K | 3.0M | 9.1M |
| 1.0 | 3.3 | 10 | 33 | 100 | 330 | 1.0K | 3.3K | 10K | 33K | 100K | 330K | 1.0M | 3.3M | 10M |
| 1.1 | 3.6 | 11 | 36 | 110 | 360 | 1.1K | 3.6K | 11K | 36K | 110K | 360K | 1.1M | 3.6M | |
| 1.2 | 3.9 | 12 | 39 | 120 | 390 | 1.2K | 3.9K | 12K | 39K | 120K | 390K | 1.2M | 3.9M | |
| 1.3 | 4.3 | 13 | 43 | 130 | 430 | 1.3K | 4.3K | 13K | 43K | 130K | 430K | 1.3M | 4.3M | |
| 1.5 | 4.7 | 15 | 47 | 150 | 470 | 1.5K | 4.7K | 15K | 47K | 150K | 470K | 1.5M | 4.7M | |
| 1.6 | 5.1 | 16 | 51 | 160 | 510 | 1.6K | 5.1K | 16K | 51K | 160K | 510K | 1.6M | 5.1M | |
| 1.8 | 5.6 | 18 | 56 | 180 | 560 | 1.8K | 5.6K | 18K | 56K | 180K | 560K | 1.8M | 5.6M | |
| 2.0 | 6.2 | 20 | 62 | 200 | 620 | 2.0K | 6.2K | 20K | 62K | 200K | 620K | 2.0M | 6.2M | |
| 2.2 | 6.8 | 22 | 68 | 220 | 680 | 2.2K | 6.8K | 22K | 68K | 220K | 680K | 2.2M | 6.8M | |
| 2.4 | 7.5 | 24 | 75 | 240 | 750 | 2.4K | 7.5K | 24K | 75K | 240K | 750K | 2.4M | 7.5M | |
| 2.7 | 8.2 | 27 | 82 | 270 | 820 | 2.7K | 8.2K | 27K | 82K | 270K | 820K | 2.7M | 8.2M | |

| Description | Value Range (Ω) | TCR (ppm) | Rated Voltage (V) | Rated Power @ 70°C | Dimensions - mm | | | | Digi-Key Part No. | Cut Tape Pricing | | | Digi-Key Part No. | Tape & Reel Pricing 10,000 | Vishay Part No. |
|----------------------------|-----------------|-----------|-------------------|--------------------|-----------------|-----|-----|-----|-------------------|------------------|------|------|-------------------|----------------------------|------------------|
| | | | | | W | L | T | tb | | 10 | 50 | 200 | | | |
| 0402, 1/16 Watt, 0Ω Jumper | 0.0 | 0 | 50 | 0.063 | 0.5 | 1.0 | 0.6 | 0.4 | 541-0.0JCT-ND | .59 | 1.60 | 3.68 | 541-0.0JTR-ND | 3.21/M | CRCW0402xxxxZ0ED |
| 5% 0402, 1/16 Watt | 1.0 - 10M | ±200 | 50 | 0.063 | 0.5 | 1.0 | 0.6 | 0.4 | 541-(Value)JCT-ND | .59 | 1.60 | 3.68 | 541-(Value)JTR-ND | 3.21/M | CRCW0402xxxxJNED |

(Continued)

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