

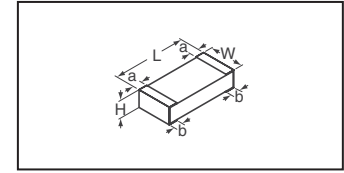


## RPC Series Pulse Withstanding Thick Film Chip Resistors



The RPC Series from Stackpole is a line of surge withstanding thick film chips. The RPC offers pulse power handling of greater than 10 times the equivalent standard thick film chip resistor in larger sizes.

Size Code	Dimensions – mm					
	L	W	H	a	b	
2010	5.00 ±0.15	2.50 ±0.15	0.55 ±0.15	0.30 ±0.20	0.60 ±0.20	
2512	6.30 ±0.15	3.20 ±0.15	0.55 ±0.15	0.30 ±0.20	0.60 ±0.20	



RPC 2010 RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	12 (12R0)	39 (39R0)	150 (150R)	470 (470R)
2.2 (2R20)	15 (15R0)	47 (47R0)	160 (160R)	680 (680R)
3.3 (3R30)	18 (18R0)	68 (68R0)	220 (220R)	820 (820R)
4.7 (4R70)	22 (22R0)	82 (82R0)	270 (270R)	1K (1K00)
6.8 (6R80)	27 (27R0)	100 (100R)	330 (330R)	10K (10K0)
10 (10R0)	33 (33R0)	120 (120R)	390 (390R)	

RPC 2512 RESISTANCE VALUE CHART

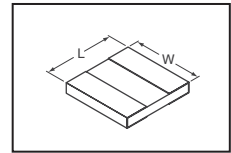
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	12 (12R0)	47 (47R0)	180 (180R)	680 (680R)
2.2 (2R20)	15 (15R0)	68 (68R0)	220 (220R)	820 (820R)
3.3 (3R30)	18 (18R0)	82 (82R0)	270 (270R)	1K (1K00)
4.7 (4R70)	22 (22R0)	100 (100R)	330 (330R)	10K (10K0)
6.8 (6R80)	33 (33R0)	120 (120R)	390 (390R)	
10 (10R0)	39 (39R0)	150 (150R)	470 (470R)	

Resistance Range (Ω)	Size Code	Wattage	Tolerance	Digi-Key Part No. \$	Cut Tape Pricing				Digi-Key Part No. \$	Tape and Reel Pricing 4,000
					1	10	50	100		
1 – 10K	2010	3/4	±5%	RPC2010JT(Code)CT-ND	.79	5.33	16.14	26.65	RPC2010JT(Code)TR-ND	89.63/M
1 – 10K	2512	1	±5%	RPC2512JT(Code)CT-ND	.76	5.31	18.85	29.46	RPC2512JT(Code)TR-ND	112.93/M

\$ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

## CSS/CSSH Series – Ultra Precision Current Sensing Resistors

Features: • High temperature performance up to 275°C • Very low inductance • Excellent frequency response • Low thermal EMF (<1µV/°C)



RESISTANCE VALUE CHART – CSS Series

Value (Code)	Value (Code)	Value (Code)
0.00025 (250)	0.001 (1L00)	0.003 (3L00)
0.0005 (500)	0.002 (2L00)	

RESISTANCE VALUE CHART – CSSH Series

Value (Code)	Value (Code)	Value (Code)	Dimensions – mm	
			L	W
0.004 (4L00)	0.01 (10L0)	0.025 (25L0)	6.80 ± 0.254	6.70 ± 0.254
0.005 (5L00)	0.02 (20L0)	0.03 (30L0)	6.70 ± 0.254	6.70 ± 0.254

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No. \$	Cut Tape Pricing			Digi-Key Part No. \$	Tape and Reel Pricing 1,000
					1	10	50		
0.00025	4	±1%	±50 ppm/°C	CSS2725FTL250CT-ND	1.64	15.06	64.83	CSS2725FTL250TR-ND	556.25
0.0005	4	±1%	±50 ppm/°C	CSS2725FTL500CT-ND	1.54	14.20	61.12	CSS2725FTL500TR-ND	524.47
0.001 – 0.003	4	±1%	±25 ppm/°C	CSS2725FT(Code)CT-ND	1.40	12.91	55.57	CSS2725FT(Code)TR-ND	476.79
0.004 – 0.05	4	±1%	±25 ppm/°C†	CSSH2728FT(Code)CT-ND	1.45	13.34	57.42	CSSH2728FT(Code)TR-ND	492.68

\$ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). † 0.01 – 0.05Ω values, TCR is ±15 ppm/°C

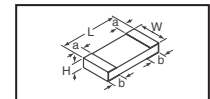


## NEW! RNCP Series – High Power Anti-Sulfur Thin Film Chip Resistors

Features: • Absolute TCRs to ±100ppm/°C • Impervious to Sulfur contamination, no silver present in terminations • Absolute tolerance to 1% • Comparable in cost to standard thick film chip resistors



Size Code	Dimensions – mm				
	L	W	H	a	b
0603	1.50 ±0.20	0.80 ±0.10	0.40 ±0.10	0.30 ±0.15	0.40 ±0.20
0805	2.00 ±0.15	1.25 ±0.15	0.50 ±0.10	0.40 ±0.20	0.60 ±0.20
1206	3.10 ±0.20	1.50 ±0.20	0.50 ±0.10	0.50 ±0.20	0.70 ±0.20



RESISTANCE VALUE CHART 0603 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	47.5 (47R5)	100 (100R)	274 (274R)	562 (562R)	1.1K (1K10)	2K (2K00)	3.32K (3K32)	4.87K (4K87)	7.5K (7K50)	12.1K (12K1)	20K (20K0)	33.2K (33K2)
4.7 (4R70)	49.9 (49R9)	121 (121R)	301 (301R)	604 (604R)	1.21K (1K21)	2.21K (2K21)	3.48K (3K48)	4.99K (4K99)	8.06K (8K06)	12.4K (12K4)	22.1K (22K1)	35.7K (35K7)
10 (10R0)	51.1 (51R1)	150 (150R)	332 (332R)	681 (681R)	1.3K (1K30)	2.32K (2K32)	3.92K (3K92)	5.11K (5K11)	8.25K (8K25)	13K (13K0)	24.3K (24K3)	37.4K (37K4)
15 (15R0)	56.2 (56R2)	180 (180R)	392 (392R)	750 (750R)	1.5K (1K50)	2.49K (2K49)	4.02K (4K02)	5.62K (5K62)	9.09K (9K09)	14K (14K0)	24.9K (24K9)	39.2K (39K2)
20 (20R0)	68.1 (68R1)	200 (200R)	475 (475R)	825 (825R)	1.65K (1K65)	2.74K (2K74)	4.32K (4K32)	6.04K (6K04)	10K (10K0)	15K (15K0)	27.4K (27K4)	40.2K (40K2)
22.1 (22R1)	75 (75R0)	221 (221R)	499 (499R)	909 (909R)	1.78K (1K78)	2.8K (2K80)	4.53K (4K53)	6.49K (6K49)	10.7K (10K7)	18.2K (18K2)	28K (28K0)	90.9K (90K9)
33.2 (33R2)	82.5 (82R5)	249 (249R)	511 (511R)	1K (1K00)	1.82K (1K82)	3.01K (3K01)	4.75K (4K75)	6.81K (6K81)	11K (11K0)	19.1K (19K1)	30.1K (30K1)	

RESISTANCE VALUE CHART 0805 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	49.9 (49R9)	150 (150R)	392 (392R)	825 (825R)	1.78K (1K78)	3.01K (3K01)	4.87K (4K87)	8.06K (8K06)	13K (13K0)	24.9K (24K9)	40.2K (40K2)	75K (75K0)
4.7 (4R70)	51.1 (51R1)	180 (180R)	475 (475R)	909 (909R)	1.82K (1K82)	3.32K (3K32)	4.99K (4K99)	8.25K (8K25)	14K (14K0)	27.4K (27K4)	47.5K (47K5)	82.5K (82K5)
10 (10R0)	56.2 (56R2)	200 (200R)	499 (499R)	1K (1K00)	2K (2K00)	3.48K (3K48)	5.11K (5K11)	9.09K (9K09)	15K (15K0)	28K (28K0)	49.9K (49K9)	90.9K (90K9)
15 (15R0)	68.1 (68R1)	221 (221R)	511 (511R)	1.1K (1K10)	2.21K (2K21)	3.92K (3K92)	5.62K (5K62)	10K (10K0)	18.2K (18K2)	30.1K (30K1)	51.1K (51K1)	
20 (20R0)	75 (75R0)	249 (249R)	562 (562R)	1.21K (1K21)	2.32K (2K32)	4.02K (4K02)	6.04K (6K04)	10.7K (10K7)	19.1K (19K1)	33.2K (33K2)	52.3K (52K3)	
22.1 (22R1)	82.5 (82R5)	274 (274R)	604 (604R)	1.3K (1K30)	2.49K (2K49)	4.32K (4K32)	6.49K (6K49)	11K (11K0)	20K (20K0)	35.7K (35K7)	56.2K (56K2)	
33.2 (33R2)	100 (100R)	301 (301R)	681 (681R)	1.5K (1K50)	2.74K (2K74)	4.53K (4K53)	6.81K (6K81)	12.1K (12K1)	22.1K (22K1)	37.4K (37K4)	61.9K (61K9)	
47.5 (47R5)	121 (121R)	332 (332R)	750 (750R)	1.65K (1K65)	2.8K (2K80)	4.75K (4K75)	7.5K (7K50)	12.4K (12K4)	24.3K (24K3)	39.2K (39K2)	68.1K (68K1)	

RESISTANCE VALUE CHART 1206 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
1 (1R00)	49.9 (49R9)	150 (150R)	392 (392R)	825 (825R)	1.78K (1K78)	3.01K (3K01)	4.87K (4K87)	8.06K (8K06)	13K (13K0)	24.9K (24K9)	40.2K (40K2)	75K (75K0)
4.7 (4R70)	51.1 (51R1)	180 (180R)	475 (475R)	909 (909R)	1.82K (1K82)	3.32K (3K32)	4.99K (4K99)	8.25K (8K25)	14K (14K0)	27.4K (27K4)	47.5K (47K5)	82.5K (82K5)
10 (10R0)	56.2 (56R2)	200 (200R)	499 (499R)	1K (1K00)	2K (2K00)	3.48K (3K48)	5.11K (5K11)	9.09K (9K09)	15K (15K0)	28K (28K0)	49.9K (49K9)	90.9K (90K9)
15 (15R0)	68.1 (68R1)	221 (221R)	511 (511R)	1.1K (1K10)	2.21K (2K21)	3.92K (3K92)	5.62K (5K62)	10K (10K0)	18.2K (18K2)	30.1K (30K1)	51.1K (51K1)	
20 (20R0)	75 (75R0)	249 (249R)	562 (562R)	1.21K (1K21)	2.32K (2K32)	4.02K (4K02)	6.04K (6K04)	10.7K (10K7)	19.1K (19K1)	33.2K (33K2)	52.3K (52K3)	
22.1 (22R1)	82.5 (82R5)	274 (274R)	604 (604R)	1.3K (1K30)	2.49K (2K49)	4.32K (4K32)	6.49K (6K49)	11K (11K0)	20K (20K0)	35.7K (35K7)	56.2K (56K2)	
33.2 (33R2)	100 (100R)	301 (301R)	681 (681R)	1.5K (1K50)	2.74K (2K74)	4.53K (4K53)	6.81K (6K81)	12.1K (12K1)	22.1K (22K1)	37.4K (37K4)	61.9K (61K9)	
47.5 (47R5)	121 (121R)	332 (332R)	750 (750R)	1.65K (1K65)	2.8K (2K80)	4.75K (4K75)	7.5K (7K50)	12.4K (12K4)	24.3K (24K3)	39.2K (39K2)	68.1K (68K1)	

Resistance Range (Ω)	Wattage	Tolerance	TCR	Digi-Key Part No. \$	Cut Tape Pricing			Digi-Key Part No. \$	Tape and Reel Pricing 5,000
					1	10	50		
1 – 90.9K	0.125	1%	±100ppm/°C	RNCP0603FTD(Code)CT-ND	.06	.45	1.24	RNCP0603FTD(Code)TR-ND	4.09/M
1 – 90.9K	0.250	1%	±100ppm/°C	RNCP0805FTD(Code)CT-ND	.08	.55	1.52	RNCP0805FTD(Code)TR-ND	5.00/M
1 – 90.9K	0.500	1%	±100ppm/°C	RNCP1206FTD(Code)CT-ND	.11	.78	2.13	RNCP1206FTD(Code)TR-ND	7.04/M

\$ For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

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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