Features:



- Anti-sulfur
- Excellent pulse withstanding performance
- Broad resistance range
- Higher anti-surge performance compared with RMCF Series
- Standard power RPCA, 5% and wider tolerances, are untrimmed
- AEC-Q200 qualified
- RoHS compliant and halogen free
- REACH compliant
- Lower values may be available – contact Stackpole

Electrical Specifications

Type/Code	Power Rating (W) @ 70ºC	Maximum Working Voltage (V)	Maximum Overload Voltage (V)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance		
					0.5%	1%	5%, 10%, 20%
RPCA0402	0.2	50	100	±300	-	1 - 20	
				±100	100 - 1M	20.5 - 1M	22 - 1M
RPCA0603	0.1	50	100	±200	10 - 294	1 - 294	-
				±100	300 - 1M		-
	0.125			±200	-		10 - 270
				±100	-		300 - 1M
RPCA0805	0.125	150	300	±200	10 - 294	1 - 294	-
				±100	300 - 20M		-
	0.25			±200	-		1 - 270
				±100	-		300 - 20M
RPCA1206	0.33	200	400	±200	10 - 20	1 - 20	
				±100	20.5 - 20M		22 - 20M
RPCA1210	0.5	200	400	±200	10 - 20	1 - 20	
				±100	20.5 - 20M		22 - 20M
RPCA2010	0.75	400	800	±200	10 - 20	1 - 20	
				±100	20.5 - 20M		22 - 20M
RPCA2512	1.5	500	1000	±200	10 - 20	1 - 20	
				±100	20.5 - 20M		22 - 20M

Working Voltage = $\sqrt{P*R}$ or Max. Working Voltage listed above, whichever is lower.
Overload Voltage = 2.5* $\sqrt{P*R}$ or Max. Overload Voltage listed above, whichever is lower.

Electrical Specifications – High Power (HP)

Type/Code	Power Rating (W) @ 70ºC	Maximum Working Voltage (V)	Maximum Overload Voltage (V)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance		
					0.5%	1%	5%
RPCA0603_-HP	0.25	75	150	±200	10 - 294	1 - 294	10 - 270
				±100	300 - 1M		
RPCA0805_-HP	0.4	150	300	±200	10 - 294	1 - 294	1 - 270
				±100	300 - 1M		
RPCA1206_-HP	0.5	200	400	±200	10 - 20	1 - 20	
				±100	20.5 - 1M		22 - 1M
RPCA1210_-HP	0.75	200	400	±200	10 - 20	1 - 20	
				±100	20.5 - 1M		22 - 1M
RPCA2010_-HP	1	400	800	±200	10 - 20	1 - 20	
				±100	20.5 - 1M		22 - 1M
RPCA2512_-HP(*)	2	500	1000	±350	10	1 - 10	
				±100	10.2 - 200K		11 - 200K

(*) Double-sided printed resistor element.
Working Voltage = $\sqrt{P*R}$ or Max. Working Voltage listed above, whichever is lower.
Overload Voltage = 2.5* $\sqrt{P*R}$ or Max. Overload Voltage listed above, whichever is lower.

This specification may be changed at any time without prior notice.
Please confirm technical specifications before you order and/or use.

Electrical Specifications – Ultra High Power (UP)

Type/Code	Power Rating (W) @ 70ºC	Maximum Working Voltage (V)	Maximum Overload Voltage (V)	TCR (ppm/ºC)	Ohmic Range (Ω) and Tolerance		
					0.5%	1%	5%
RPCA0805_-UP	0.5	400	600	±200	10 - 294	1 - 294	1 - 270
				±100	300 - 1M		
RPCA1206_-UP	0.75	500	1000	±200	10 - 20	1 - 20	
				±100	20.5 - 1M		22 - 1M

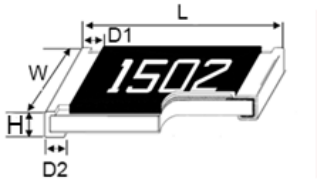
Ultra High Power: double side printed resistor element.
Working Voltage = $\sqrt{P*R}$ or Max. Working Voltage listed above, whichever is lower.
Overload Voltage = 2.5* $\sqrt{P*R}$ or Max. Overload Voltage listed above, whichever is lower.

Electrical Specifications – Ultra High Power Jumper

Type/Code	Jumper Rated Current (A)	Max. Resistance
RPCA0603_-UP	5	0.008 max.
RPCA0805_-UP	6	0.005 max.
RPCA1206_-UP	10	

Ultra High Power: double side printed resistor element.

Mechanical Specifications



Type/Code	Weight (g) (1000 pcs)	L Body Length	W Body Width	H Body Height	D1 Top Termination	D2 Bottom Termination	Unit
RPCA0402	0.64	0.039 ± 0.002 1.00 ± 0.05	0.020 ± 0.002 0.50 ± 0.05	0.014 ± 0.002 0.35 ± 0.05	0.008 ± 0.004 0.20 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	inches mm
RPCA0603 (HP)	2.042	0.063 ± 0.004 1.60 ± 0.10	0.031 ± 0.004 0.80 ± 0.10	0.018 ± 0.004 0.45 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.012 ± 0.008 0.30 ± 0.20	inches mm
RPCA0805 (HP)	4.368	0.079 ± 0.004 2.00 ± 0.10	0.049 ± 0.004 1.25 ± 0.10	0.020 ± 0.004 0.50 ± 0.10	0.014 ± 0.008 0.35 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
RPCA0805_-UP	5	0.079 ± 0.004 2.00 ± 0.10	0.049 ± 0.004 1.25 ± 0.10	0.022 ± 0.004 0.55 ± 0.10	0.014 ± 0.008 0.35 ± 0.20	0.016 ± 0.008 0.40 ± 0.20	inches mm
RPCA1206 (HP)	8.947	0.122 ± 0.004 3.10 ± 0.10	0.061 ± 0.004 1.55 ± 0.10	0.022 ± 0.004 0.55 ± 0.10	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RPCA1206_-UP	9.2	0.122 ± 0.004 3.10 ± 0.10	0.061 ± 0.004 1.55 ± 0.10	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.022 ± 0.010 0.55 ± 0.25	inches mm
RPCA1210 (HP)	15.959	0.122 ± 0.004 3.10 ± 0.10	0.102 ± 0.006 2.60 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.020 ± 0.010 0.50 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RPCA2010 (HP)	24.241	0.197 ± 0.004 5.00 ± 0.10	0.098 ± 0.006 2.50 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RPCA2512	39.448	0.250 ± 0.004 6.35 ± 0.10	0.122 ± 0.006 3.10 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.010 0.60 ± 0.25	0.020 ± 0.008 0.50 ± 0.20	inches mm
RPCA2512 (HP)	42	0.250 ± 0.008 6.35 ± 0.20	0.124 ± 0.006 3.15 ± 0.15	0.024 ± 0.004 0.60 ± 0.10	0.031 ± 0.010 0.80 ± 0.25	0.024 ± 0.012 0.60 ± 0.30	inches mm

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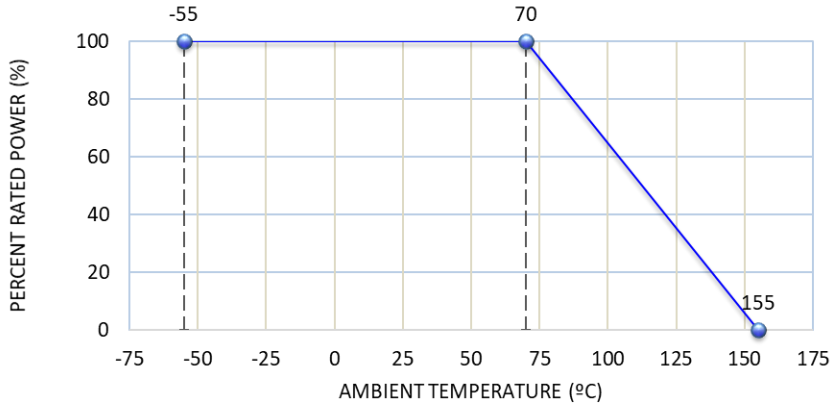
Performance Characteristics

Item	Test Method	Tolerances of 0.5% and 1%	Tolerance of 5%, 10%, 20%	Jumper	Test Condition
Temperature Coefficient of Resistance (T.C.R.)	JIS-C-5201-1 4.8 IEC-60115-1 4.8	Within the specified tolerance			At 25°C/-55°C and 25°C/+125°C, 25°C is the reference temperature
Short Time Overload	JIS-C-5201-1 4.13 IEC-60115-1 4.13	± (1% + 0.05Ω)		0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	RCWV * 2.5 or max. overload voltage whichever is lower for 5 seconds Jumper: 2*Imax for 5 seconds
Insulation Resistance	JIS-C-5201-1 4.6 IEC-60115-1 4.6	≥ 10G			Max. overload voltage for 1 minute
Operational Life	MIL-STD-202 Method 108	± (1% + 0.05Ω)	± (3% + 0.05Ω)	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	Condition D Stead State TA=125°C at derated power. Measurement at 24 ± 4 hours after test conclusion
Biased Humidity	MIL-STD-202 Method 103	± (1% + 0.05Ω)	± (3% + 0.05Ω)	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	1000 hours 85°C/85% R.H. 10% of operating power
High Temperature Exposure	MIL-STD-202 Method 108	± (1% + 0.05Ω)		0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	At 155°C for 1000 hours
Board Flex	AEC-Q200-005	± (1% + 0.05Ω)		0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	Bending once for 60 seconds. 2010, 2512 sizes: 2mm; other sizes: 3mm
Solderability	JIS-C-5201-1 4.17 IEC-60115-1 4.17	95% min. coverage			245 ± 5°C for 3 seconds
Resistance to Soldering Heat	JIS-C-5201-1 4.18 IEC-60115-1 4.18	± (0.5% + 0.05Ω)	± (1% + 0.05Ω)	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	260 ± 5°C for 10 seconds
Voltage Proof	JIS-C-5201-1 4.7 IEC-60115-1 4.7	No breakdown or flashover			1.42 times max. operating voltage for 1 minute
Leaching	JIS-C-5201-1 4.18 IEC-60068-2-58-8.2.1	Individual leaching area ≤ 5% Total leaching area ≤ 10%			260ºC ± 5°C for 30 seconds
Temperature Cycling	JESD22 Method JA-104	± (0.5% + 0.05Ω)	± (1% + 0.05Ω)	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	-55°C to + 125°C, 1000 cycles
Mechanical Shock	MIL-STD-202 Method 213	± (0.25% + 0.05Ω)	± (1% + 0.05Ω)	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	Wave form: Tolerance for half sine shock pulse. Peak value is 100g's. Normal duration (D) is 6.
Vibration	MIL-STD-202 Method 204	± (0.5% + 0.05Ω)	± (1% + 0.05Ω)	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	5 g's for 20 minutes, 12 cycles each of 3 orientations, 10-2000Hz
ESD	AEC-Q200-002	± (3% + 0.05Ω)			Human body model 0402/0603: 1KV; 0805 and above: 2KV
Resistance to Solvents	MIL-STD-202 Method 215	No visible damage on appearance and marking.			Add aqueous wash chemical - OKEM clean or equivalent. Do not use banned solvents.
Terminal Strength	AEC-Q200-006	No breakage.			Force of 1.8Kg for 60 seconds
Flammability	UL-94	No ignition of the tissue paper or scorching on the pinewood board			V-0 or V-1 are acceptable. Electrical test not required.
Sulfur Test	EIA-977 (Condition A)	ΔR ± 1%	ΔR ± 5%	0603: ≤ 8mΩ 0805: ≤ 5mΩ 1206: ≤ 5mΩ	60 ± 2°C, no power rating for 500 hours

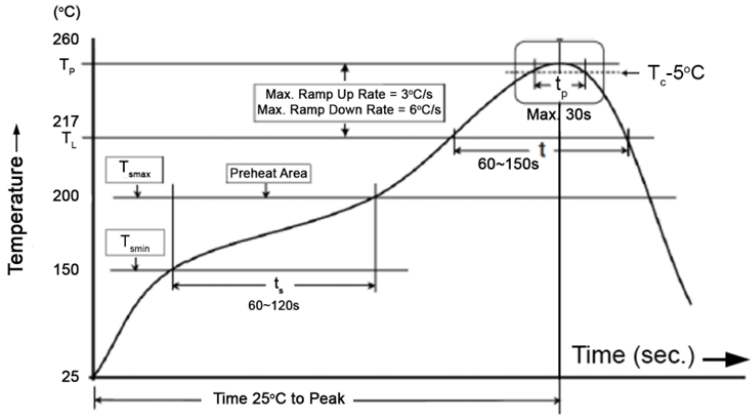
RCWV (Rated Continuous Working Voltage)= $\sqrt{P*R}$ or Max. Operating Voltage whichever is lower.
Storage Temperature: 15 ~ 28ºC; humidity < 80% R.H.
Operating temperature range is -55°C +155°C

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Power Derating Curve:



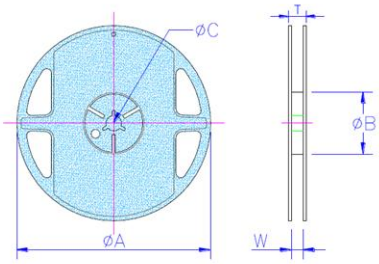
Soldering Condition:



Reflow Profiles	
Profile Feature	Pb-Free Assembly
Preheat: Min. temperature (Tsmin) Max. temperature (Tsmax) Preheating time (ts) from Tsmin to Tsmax	 150°C 200°C 60-120 seconds
Ramp-up rate (T_L to T_P)	3°C/second max
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds
Min. peak temperature (Tp min)	235°C
Max. peak temperature (Tp max)	260°C
Time (tp) within 5°C of the specified classification temperature (Tc)	30 seconds max.
Ramp-down rate (T_L to T_P)	6°C/second max.
Time 25°C to peak temperature	8 minutes max.

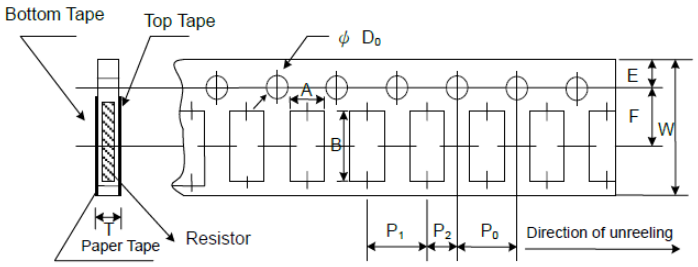
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Reel Specifications



Type/Code	Packaging	Tape Width	Reel Diameter	A	B	C	W	T	Unit
RPCA0402	Paper	8 mm	7 inches	7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.008	0.354 ± 0.020	0.492 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.20	9.00 ± 0.50	12.50 ± 0.50	mm
RPCA0603				7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.008	0.354 ± 0.020	0.492 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.20	9.00 ± 0.50	12.50 ± 0.50	mm
RPCA0805				7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.008	0.354 ± 0.020	0.492 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.20	9.00 ± 0.50	12.50 ± 0.50	mm
RPCA1206				7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.008	0.354 ± 0.020	0.492 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.20	9.00 ± 0.50	12.50 ± 0.50	mm
RPCA1210				7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.008	0.354 ± 0.020	0.492 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.20	9.00 ± 0.50	12.50 ± 0.50	mm
RPCA2010	Embossed	12 mm		7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.020	0.512 ± 0.020	0.610 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.50	13.00 ± 0.50	15.50 ± 0.50	mm
RPCA2512				7.028 ± 0.059	2.362 +0.039/-0	0.512 ± 0.020	0.512 ± 0.020	0.610 ± 0.020	inches
				178.50 ± 1.50	60 +1/-0	13.00 ± 0.50	13.00 ± 0.50	15.50 ± 0.50	mm

Packaging Specifications - Paper Tape



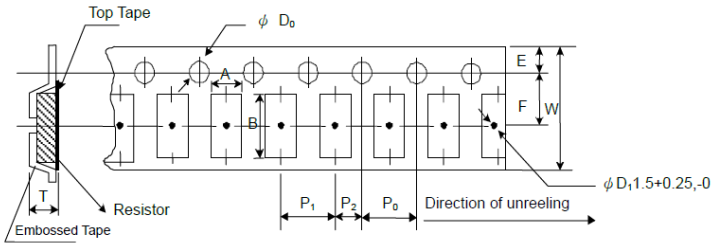
Type/Code	A	B	W	E	F	Unit
RPCA0402	0.026 ± 0.004	0.045 ± 0.004	0.315 ± 0.008	0.069 ± 0.004	0.138 ± 0.002	inches
	0.65 ± 0.10	1.15 ± 0.10	8.00 ± 0.20	1.75 ± 0.10	3.50 ± 0.05	mm
RPCA0603	0.043 ± 0.004	0.075 ± 0.004	0.315 ± 0.008	0.069 ± 0.004	0.138 ± 0.002	inches
	1.10 ± 0.10	1.90 ± 0.10	8.00 ± 0.20	1.75 ± 0.10	3.50 ± 0.05	mm
RPCA0805	0.063 ± 0.004	0.094 ± 0.008	0.315 ± 0.008	0.069 ± 0.004	0.138 ± 0.002	inches
	1.60 ± 0.10	2.40 ± 0.20	8.00 ± 0.20	1.75 ± 0.10	3.50 ± 0.05	mm
RPCA1206	0.075 ± 0.004	0.138 ± 0.008	0.315 ± 0.008	0.069 ± 0.004	0.138 ± 0.002	inches
	1.90 ± 0.10	3.50 ± 0.20	8.00 ± 0.20	1.75 ± 0.10	3.50 ± 0.05	mm
RPCA1210	0.114 ± 0.004	0.138 ± 0.008	0.315 ± 0.008	0.069 ± 0.004	0.138 ± 0.002	inches
	2.90 ± 0.10	3.50 ± 0.20	8.00 ± 0.20	1.75 ± 0.10	3.50 ± 0.05	mm

This specification may be changed at any time without prior notice.
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Packaging Specifications - Paper Tape (cont.)

Type/Code	P_0	P_1	P_2	$ØD_0$	T	Unit
RPCA0402	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.018 ± 0.004 0.45 ± 0.10	inches mm
RPCA0603	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.002 4.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.028 ± 0.004 0.70 ± 0.10	inches mm
RPCA0805	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.002 4.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.033 ± 0.004 0.85 ± 0.10	inches mm
RPCA1206	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.002 4.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.033 ± 0.004 0.85 ± 0.10	inches mm
RPCA1210	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.002 4.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.033 ± 0.004 0.85 ± 0.10	inches mm

Packaging Specifications – Embossed Plastic Tape



Type/Code	A	B	W	E	F	Unit
RPCA2010	0.110 ± 0.004 2.80 ± 0.10	0.213 ± 0.008 5.40 ± 0.20	0.472 ± 0.012 12.00 ± 0.30	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.002 5.50 ± 0.05	inches mm
RPCA2512	0.138 ± 0.004 3.50 ± 0.10	0.264 ± 0.004 6.70 ± 0.10	0.472 ± 0.012 12.00 ± 0.30	0.069 ± 0.004 1.75 ± 0.10	0.217 ± 0.002 5.50 ± 0.05	inches mm
Type/Code	P_0	P_1	P_2	$ØD_0$	T	Unit
RPCA2010	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.047 - 0.000 1.20 - 0.00	inches mm
RPCA2512	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.059 + 0.004/-0 1.50 + 0.1/-0	0.047 - 0.000 1.20 - 0.00	inches mm

Marking

1. No marking for 0402
2. 3-digit marking for 0603 in E24

3-digit marking for 0603 in E24
Example:
101 = 100 Ω
102 = 1K Ω

101 1st and 2nd digits are E24 code
3rd digit is the multiplier

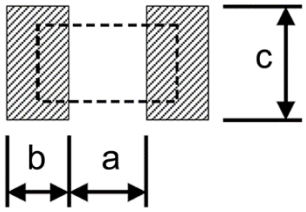
E24 Code	10	11	12	13	15	16	18	20	22	24	27	30	33	36	39	43	47	51	56	62	68	75	82	91

3. 4-digit marking for 0805-2512

4-digit marking for 0805-2512					
Resistance	100 Ω	2.2K Ω	10K Ω	100K Ω	1M Ω
Marking	1000	2201	1002	1003	1004

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Recommended Pad Layout



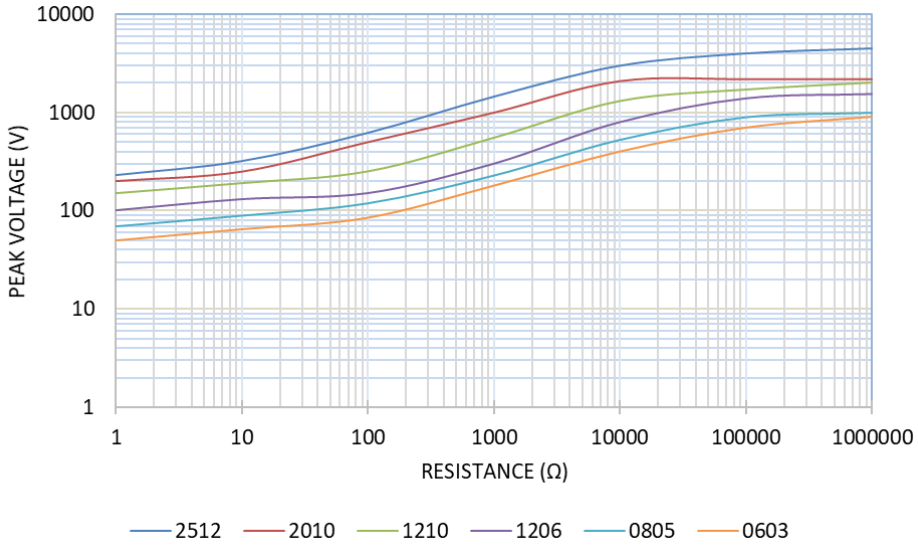
Type/Code	a	b	c	Unit
RPCA0402	0.020 0.50	0.018 0.45	0.024 0.60	inches mm
RPCA0603	0.035 0.90	0.024 0.60	0.035 0.90	inches mm
RPCA0805	0.047 1.20	0.028 0.70	0.051 1.30	inches mm
RPCA1206	0.079 2.00	0.035 0.90	0.063 1.60	inches mm
RPCA1210	0.079 2.00	0.035 0.90	0.110 2.80	inches mm
RPCA2010	0.150 3.80	0.035 0.90	0.110 2.80	inches mm
RPCA2512	0.193 4.90	0.039 1.00	0.134 3.40	inches mm

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Lightning Surge

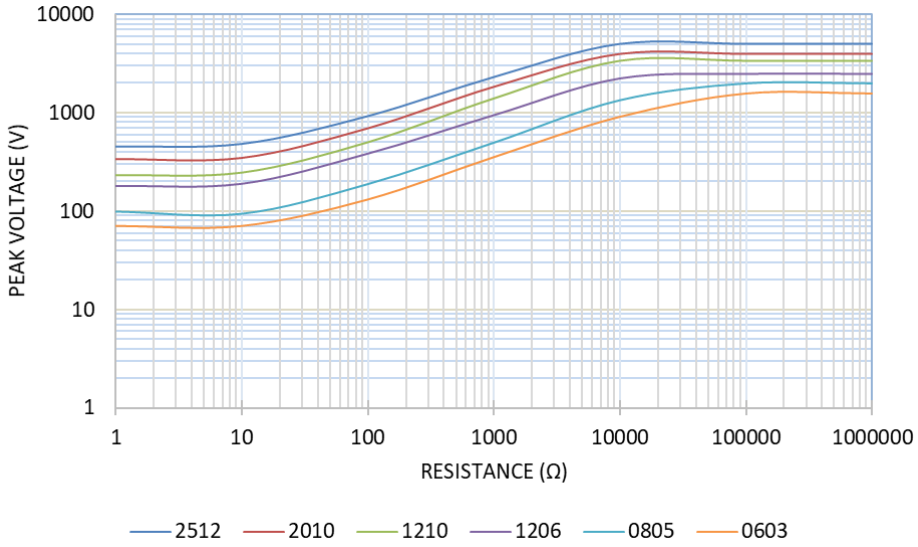
Resistors are tested in accordance with IEC 60115-1 using both 1.2 / 50 us and 10 / 700 pulse shapes. The limit of acceptance is a shift in resistance of less than 1% from the initial value.

1.2/50us Lightning Surge (*)
RPCA (Standard Power) tolerances of 0.5% and 1%
RPCA-HP (High Power) all tolerances
RPCA-UP (Ultra High Power) all tolerances



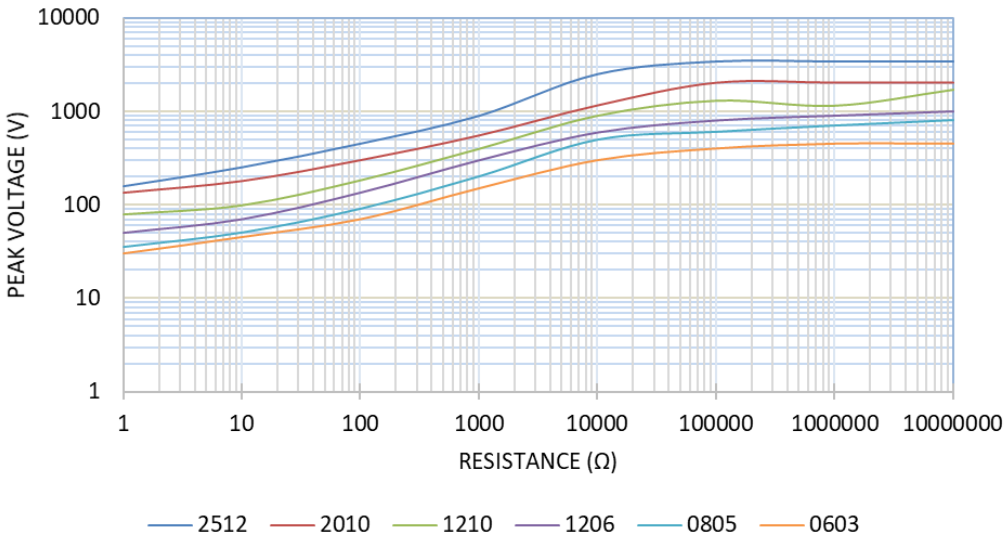
(*) Note: Data provided shows typical performance and is for reference only.

1.2/50us Lightning Surge (*)
RPCA (Standard Power)
Tolerances of 5%, 10% and 20%



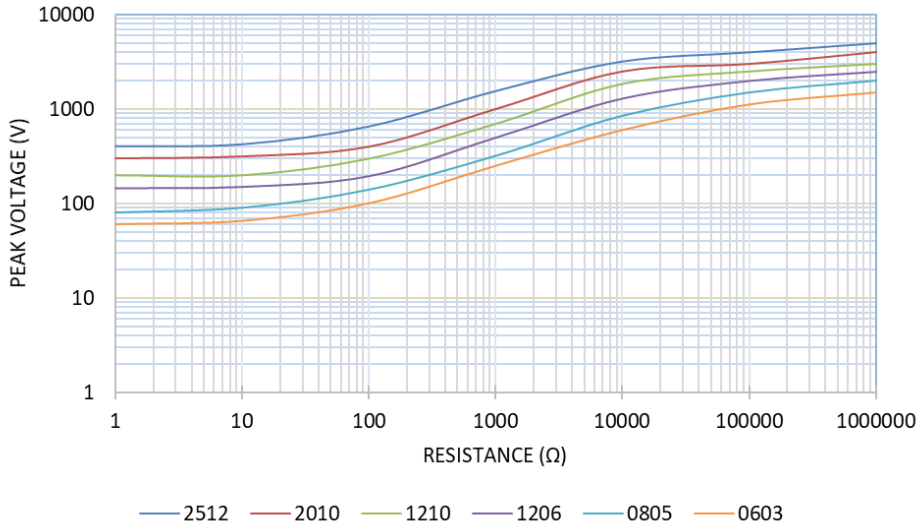
This specification may be changed at any time without prior notice.
Please confirm technical specifications before you order and/or use.

10/700us Lightning Surge (*)
RPCA (Standard Power) tolerances of 0.5% and 1%
RPCA-HP (High Power) all tolerances
RPCA-UP (Ultra High Power) all tolerances



(*) Note: Data provided shows typical performance and is for reference only.

10/700us Lightning Surge (*)
RPCA (Standard Power)
Tolerances of 5%, 10% and 20%



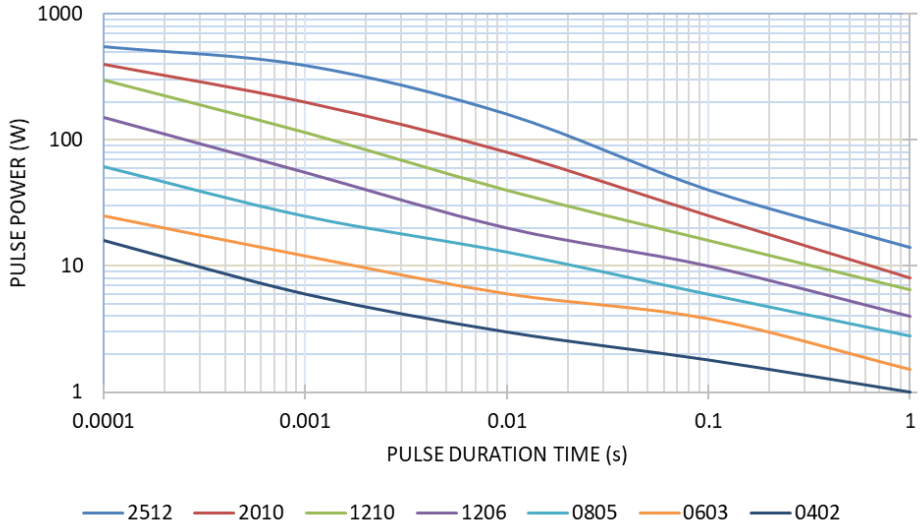
(*) Note: Data provided shows typical performance and is for reference only.

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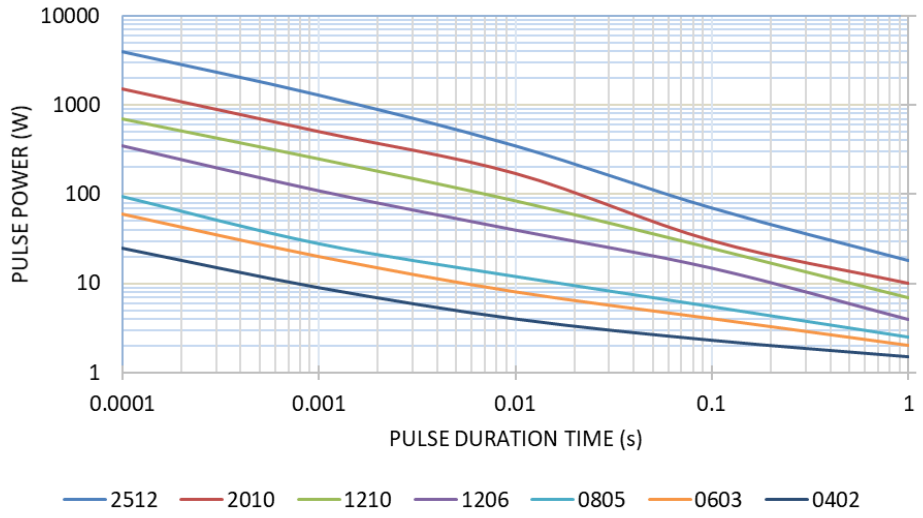
Pulse Withstand Capacity

The single impulse graph is the result of 50 impulses of rectangular shape applied at one-minute intervals. The limit of acceptance was a shift in resistance of less than 1% from the initial value. The power applied was subject to the restrictions of the maximum permissible impulse voltage graph shown.

Single Pulse Power (100 ohms)
RPCA (Standard Power) tolerances of 0.5% and 1%
RPCA-HP (High Power) all tolerances
RPCA-UP (Ultra High Power) all tolerances



Single Pulse Power (100 ohms)
RPCA (Standard Power)
Tolerances of 5%, 10% and 20%



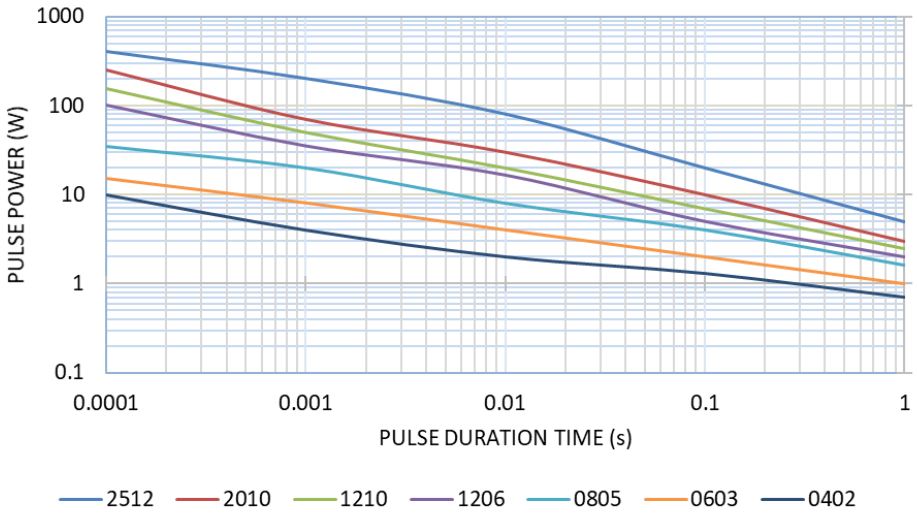
This data is for the 100 Ω resistance value for each size. Pulse power handling is dependent on the resistance value. For resistance values higher or lower than 100 Ω, contact Stackpole for advice on pulse handling characteristics of your particular resistance value of interest.

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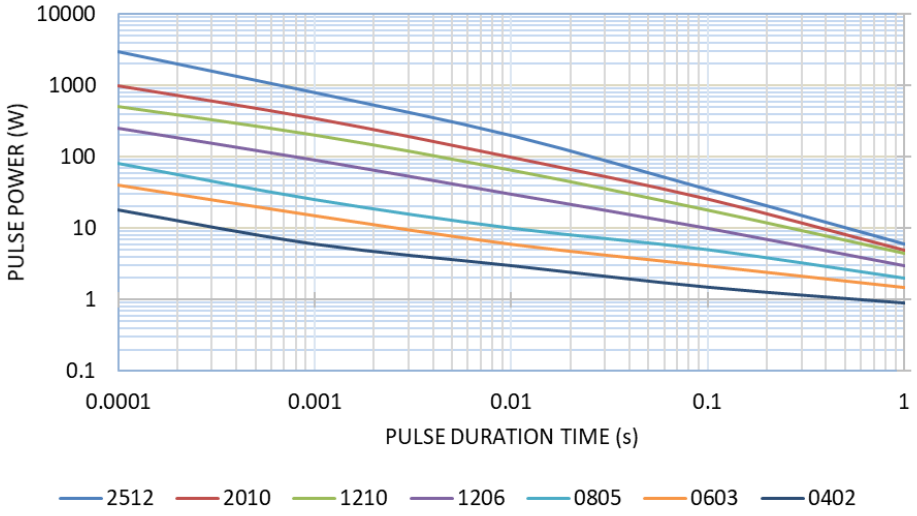
Continuous Pulse

The continuous load graph was obtained by applying repetitive rectangular pulses where the pulse period was adjusted so that the average power dissipated in the resistor was equal to its rated power at 70 ºC. Again, the limit of acceptance was a shift in resistance of less than 1% from the initial value.

Continuous Pulse Power (100 ohms)
RPCA (Standard Power) tolerances of 0.5% and 1%
RPCA-HP (High Power) all tolerances
RPCA-UP (Ultra High Power) all tolerances

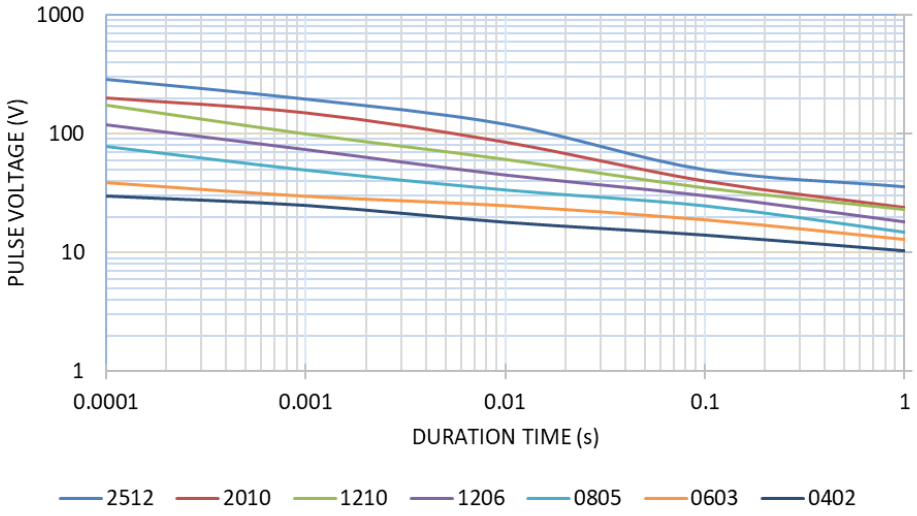


Continuous Pulse Power (100 ohms)
RPCA (Standard Power)
Tolerances of 5%, 10% and 20%

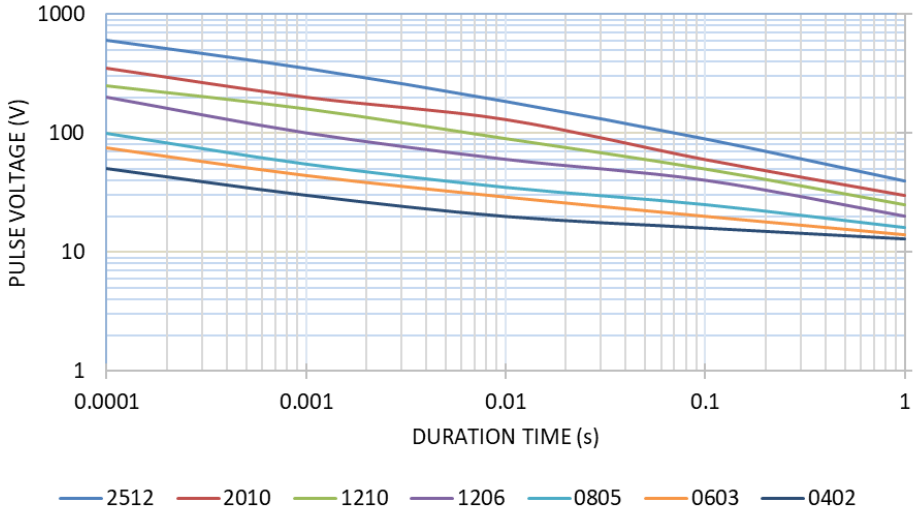


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Pulse Voltage (100 ohms)
RPCA (Standard Power) tolerances of 0.5% and 1%
RPCA-HP (High Power) all tolerances
RPCA-UP (Ultra High Power) all tolerances



Pulse Voltage (100 ohms)
RPCA (Standard Power)
Tolerances of 5%, 10% and 20%



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

This specification may be changed at any time without prior notice.
Please confirm technical specifications before you order and/or use.

RoHS Compliance Status						
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
RPCA	Pulse Withstanding Thick Film Surface Mount Chip Resistor	SMD	YES(1)	100% Matte Sn over Ni	Jan-03	03/01

Note (1): RoHS Compliant by means of exemption 7c-I.

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
R	P	C	A	1	2	0	6	F	T	1	R	2	0	-	H	P

Product Series	
Code	Description
RPCA	Automotive Grade Anti-sulfur

Power Rating	
Size	W
0402	0.2
0603	0.1
0603	0.125
0603(HP)	0.25
0805	0.125
0805	0.25
0805(HP)	0.4
0805(UP)	0.5
1206	0.33
1206(HP)	0.5
1206(UP)	0.75
1210	0.5
1210(HP)	0.75
2010	0.75
2010(HP)	1
2512	1.5
2512(HP)	2

Tolerance		
Code	Tol	Value
D	0.5%	E96
F	1%	E24
J	5%	E24
K	10%	
M	20%	
Z	Jumper	

Packaging			
Code	Description	Size	Quantity
T	7" Reel Paper Tape	0402	10000
		0603	5000
		0805	
		1206	
		1210	
	7" Reel Plastic Tape	2010	4000
		2512	

Resistance Value
Four characters with the multiplier used as the decimal holder.
300 ohm = 300R
10.2 Kohm = 10K2
1 Mohm = 1M00
Zero ohm jumper = 0R00

Special	
Code	Description
blank	Standard
-HP	High Power
-UP	Ultra High Power

This specification may be changed at any time without prior notice.
Please confirm technical specifications before you order and/or use.