# Stackpole Electronics, Inc.

Pulse Withstanding Thick Film Chip Resistor

Resistive Product Solutions

#### Features:

- Excellent pulse withstanding performance
- Broad resistance range
- Higher anti-surge performance compared with RMCF Series
- Standard power RPC, 5% and wider tolerances, are untrimmed
- 1% and wider tolerances are qualified to AEC-Q200
- · RoHS compliant and halogen free
- Lower values may be available contact Stackpole



	Electrical Specifications										
Type / Code	Power Rating (W) @ 70°C	Maximum Working	Maximum Overload	TCR (ppm/°C)	Ohm	ic Range (Ω) and	Tolerance				
	@ 70°C	Voltage (V)	Voltage (V)		0.5%	1%	5%, 10%, 20%				
				±300	-		1 - 20				
RPC0402	0.2	50	100	±100	100 - 1M	20.5 - 1M	22 - 1M				
DDC0603	0.1	50	100	±200	10 - 294	1 - 294	10 - 270				
RPC0603	0.1	50	100	±100		300 - 1M					
RPC0805	0.25	150	000	±200	10 - 294	1 - 294	1 - 270				
KFC0003	0.25	150	300	±100		300 - 20M					
RPC1206	0.33	200	400	±200	10 - 20		1 - 20				
KFC1200	0.55	200	400	±100	20.5	- 20M	22 - 20M				
RPC1210	0.5	200	400	±200	10 - 20		1 - 20				
REGIZIO	0.5	200	400	±100	20.5	- 20M	22 - 20M				
RPC2010	0.75	400	800	±200	10 - 20		1 - 20				
102010	0.75	400	000	±100	20.5	- 20M	22 - 20M				
RPC2512	1.5	500	1000	±200	10 - 20		1 - 20				
111 02312	1.5	300	1000	±100	20.5	- 20M	22 - 20M				

Working Voltage = √ (P\*R) or Max. Working Voltage listed above, whichever is lower.

Overload Voltage = 2.5 \* v(P\*R) or Max. Overload Voltage listed above, whichever is lower.

	Electrical Specifications – High Power (HP)										
Type / Code	Power Rating (W) @ 70°C	Maximum Working	Maximum Overload	TCR (ppm/°C)	Ohm	iic Range (Ω) and	Tolerance				
	@ 70.0	Voltage (V)	Voltage (V)		0.5%	1%	5%				
RPC0603 -HP	0.25	75	150	±200	10 - 294	1 - 294	10 - 270				
RPC0603HP	0.25	75	150	±100		300 - 1M					
DDC0005 LID	0.4	150	300	±200	10 - 294	1 - 294	1 - 270				
RPC0805HP	0.4	4 150	300	±100	300 - 1M						
DDC4206 LID	0.5	200	400	±200	10 - 20		1 - 20				
RPC1206HP	0.5	200	400	±100	20.5	- 1M	22 - 1M				
DDC4040 LID	0.75	200	400	±200	10 - 20		1 - 20				
RPC1210HP	0.75	200	400	±100	20.5	- 1M	22 - 1M				
DDC0040 LID	1	400	000	±200	10 - 20		1 - 20				
RPC2010HP		400	800	±100	20.5	- 1M	22 - 1M				
DD00540 LID <sup>(*)</sup>	2	500	1000	±350	10		1 - 10				
RPC2512HP <sup>(*)</sup>	2	2 500		±100		10.5 - 200K					

Working Voltage = √ (P\*R) or Max. Working Voltage listed above, whichever is lower.

Overload Voltage = 2.5  $^{\star}$   $^{\lor}$  (P\*R) or Max. Overload Voltage listed above, whichever is lower.

(\*) Double-sided printed resistor element.

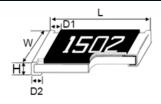
	Electrical Specifications – Ultra High Power (UP)										
Type / Code	Power Rating (W) @ 70°C	Maximum Working	Chmic Range (C)		nic Range (Ω) and	Tolerance					
	@ 70°C	Voltage (V)	Voltage (V)		0.5%	1%	5%				
PDC0805 LID	RPC0805UP 0.5	400	600	±200	10 - 294	1 - 294	1 - 270				
KFC0605UF				±100		300 - 1M					
RPC1206 -UP	0.75	500	1000	±200	10 - 20		1 - 20				
KPC1200UP		500	1000	±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\*v (P\*R) or Max. Overload Voltage listed above, whichever is lower.

# Mechanical Specifications



Type / Code	Weight (g)	L	W	Н	D1	D2	Unit
Type / Code	(1000 pcs)	Body Length	Body Width	Body Height	Top Termination	Bottom Termination	Offit
RPC0402	0.64	$0.039 \pm 0.002$	$0.020 \pm 0.002$	$0.014 \pm 0.002$	$0.008 \pm 0.004$	$0.008 \pm 0.004$	inches
KFC0402	0.04	$1.00 \pm 0.05$	$0.50 \pm 0.05$	$0.35 \pm 0.05$	$0.20 \pm 0.10$	$0.20 \pm 0.10$	mm
RPC0603 (HP)	2.042	$0.063 \pm 0.004$	$0.031 \pm 0.004$	$0.018 \pm 0.004$	$0.012 \pm 0.008$	$0.012 \pm 0.008$	inches
KFC0003 (HF)	2.042	$1.60 \pm 0.10$	$0.80 \pm 0.10$	$0.45 \pm 0.10$	$0.30 \pm 0.20$	$0.30 \pm 0.20$	mm
RPC0805 (HP)	4.368	$0.079 \pm 0.004$	$0.049 \pm 0.004$	$0.020 \pm 0.004$	$0.014 \pm 0.008$	$0.016 \pm 0.008$	inches
KFC0003 (HF)	4.300	$2.00 \pm 0.10$	1.25 ± 0.10	$0.50 \pm 0.10$	$0.35 \pm 0.20$	$0.40 \pm 0.20$	mm
RPC0805 -UP	5.049	$0.079 \pm 0.004$	$0.049 \pm 0.004$	$0.020 \pm 0.004$	$0.014 \pm 0.008$	$0.016 \pm 0.008$	inches
KFC00050F	5.049	$2.00 \pm 0.10$	1.25 ± 0.10	$0.50 \pm 0.10$	$0.35 \pm 0.20$	$0.40 \pm 0.20$	mm
RPC1206 (HP)	8.947	$0.122 \pm 0.004$	$0.061 \pm 0.004$	$0.022 \pm 0.004$	$0.020 \pm 0.010$	$0.020 \pm 0.008$	inches
KFC1200 (HF)	0.947	$3.10 \pm 0.10$	1.55 ± 0.10	$0.55 \pm 0.10$	$0.50 \pm 0.25$	$0.50 \pm 0.20$	mm
RPC1206 -UP	9.541	$0.122 \pm 0.004$	$0.061 \pm 0.004$	$0.022 \pm 0.004$	$0.020 \pm 0.010$	$0.020 \pm 0.008$	inches
KFC12000F	9.541	$3.10 \pm 0.10$	1.55 ± 0.10	$0.55 \pm 0.10$	$0.50 \pm 0.25$	$0.50 \pm 0.20$	mm
RPC1210 (HP)	15.959	$0.122 \pm 0.004$	$0.102 \pm 0.006$	$0.022 \pm 0.004$	$0.020 \pm 0.010$	$0.020 \pm 0.008$	inches
Ki C1210 (III )	13.939	$3.10 \pm 0.10$	$2.60 \pm 0.15$	$0.55 \pm 0.10$	$0.50 \pm 0.25$	$0.50 \pm 0.20$	mm
RPC2010 (HP)	24.241	$0.197 \pm 0.004$	$0.098 \pm 0.006$	$0.022 \pm 0.004$	$0.024 \pm 0.010$	$0.020 \pm 0.008$	inches
Ki C2010 (III )	24.241	$5.00 \pm 0.10$	2.50 ± 0.15	0.55 ± 0.10	0.60 ± 0.25	$0.50 \pm 0.20$	mm
RPC2512	39.448	$0.250 \pm 0.004$	$0.122 \pm 0.006$	$0.022 \pm 0.004$	$0.024 \pm 0.010$	$0.020 \pm 0.008$	inches
KF02312	39.440	$6.35 \pm 0.10$	$3.10 \pm 0.15$	$0.55 \pm 0.10$	$0.60 \pm 0.25$	$0.50 \pm 0.20$	mm
RPC2512 (HP)	42	$0.250 \pm 0.008$	$0.124 \pm 0.006$	$0.024 \pm 0.004$	$0.024 \pm 0.010$	$0.020 \pm 0.008$	inches
1X1 O2312 (11F)	42	$6.35 \pm 0.20$	$3.15 \pm 0.15$	$0.60 \pm 0.10$	$0.60 \pm 0.25$	$0.50 \pm 0.20$	mm

Performance Characteristics									
Item	Test Method	Test Specification	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)	RCWV * 2.5 or max. overload voltage whichever is lower for 5 seconds						
Insulation Resistance	JIS-C-5201-1 4.6 IEC-60115-1 4.6	≥ 10 G	Max. overload voltage for 1 minute						
Endurance Tolerances of 0.5%, 1%	JIS-C-5201-1 4.25 IEC-60115-1 4.25.1	± (1% + 0.05Ω)	70 ± 2°C, RCWV for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"						
Endurance Tolerances of 5%, 10%, 20%	JIS-C-5201-1 4.25 IEC-60115-1 4.25.1	± (3% + 0.05Ω)	70 ± 2°C, RCWV for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"						

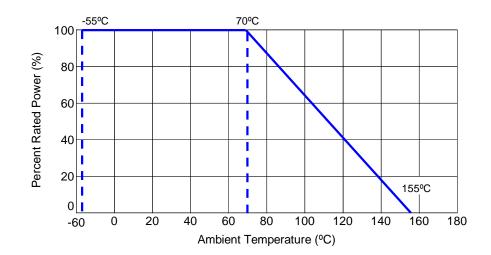
Performance Characteristics (cont.)									
Item	Test Method	Test Specification	Test Condition						
Damp Heat with Load Tolerances of 0.5%, 1%	JIS-C-5201-1 4.24 IEC-60115-1 4.24	± (0.5% + 0.05Ω)	40 ± 2°C, 90~95% R.H, RCWV for 1000 hour with 1.5 hours "ON" and 0.5 hour "OFF"						
Damp Heat with Load Tolerances of 5%, 10%, 20%	JIS-C-5201-1 4.24 IEC-60115-1 4.24	$\pm (3\% + 0.05\Omega)$	40 ± 2°C, 90~95% R.H, RCWV for 1000 hours						
Damp Heat with Load Ultra High Power	JIS-C-5201-1 4.24 IEC-60115-1 4.24	± (1% + 0.05Ω)	with 1.5 hours "ON" and 0.5 hour "OFF"						
Dry Heat Tolerances of 0.5%, 1%	JIS-C-5201-1 4.23 IEC-60115-1 2.23.2	± (0.5% + 0.05Ω)	At +155°C for 1000 hours						
Dry Heat Tolerances of 5%, 10%, 20%	JIS-C-5201-1 4.23 IEC-60115-1 2.23.2	± (3% + 0.05Ω)	At +155°C for 1000 hours						
Bending Strength	JIS-C-5201-1 4.33 IEC-60115-1 4.33	± (1% + 0.05Ω)	Bending once for 5 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 tolerances of 0.5%, 1%	JIS-C-5201-1 4.18 IEC-60115-1 4.18	± (0.5% + 0.05Ω)	260 ± 5°C for 10 seconds						
Resistance to Soldering Heat tolerances of 5%, 10%, 20%	JIS-C-5201-1 4.18 IEC-60115-1 4.18	± (1% + 0.05Ω)	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%	260 ± 5°C for 30 seconds						
Rapid Change of Temperature tolerances of 0.5%, 1%	JIS-C-5201-1 4.18 IEC-60115-1 4.18	± (0.5% + 0.05Ω)	-55°C to + 150°C , 5 cycles						
Rapid Change of Temperature tolerances of 5%, 10%, 20%	JIS-C-5201-1 4.18 IEC-60115-1 4.18	± (1% + 0.05Ω)	-55°C to + 150°C , 5 cycles						

RCWV (Rated Continuous Working Voltage)= v (P\*R) or Max. Working Voltage whichever is lower.

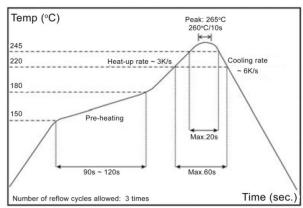
Storage Temperature: 15 ~ 28 °C; humidity < 80% R.H.

Operating temperature range is - 55°C + 155°C

## Power Derating Curve:

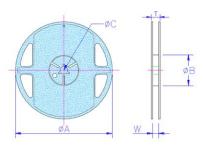


# **Soldering Condition:**



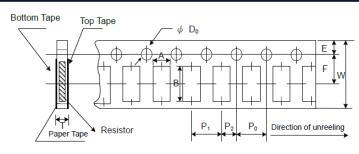
IR Reflow Soldering

# Reel Specifications



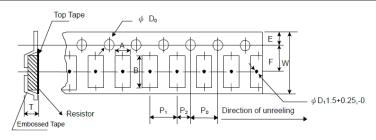
Type / Code	Packaging	Tape Width	Reel Diameter	А	A B		C W		Unit						
RPC0402				7.028 ± 0.059											
				178.50 ± 1.50	60 +1 / -0	13.00 ± 0.20	9.00 ± 0.50	12.50 ± 0.50	mm						
RPC0603				7.028 ± 0.059	2.362 +0.039 / -0	$0.512 \pm 0.008$		$0.492 \pm 0.020$	inches						
111 00000				178.50 ± 1.50	60 +1 / -0	$13.00 \pm 0.20$	$9.00 \pm 0.50$	$12.50 \pm 0.50$	mm						
RPC0805	Paper	8 mm	9 mm	g mm	8 mm	8 mm	8 mm	g mm	g mm	$7.028 \pm 0.059$	2.362 +0.039 / -0	0.512 ± 0.008	$0.354 \pm 0.020$	$0.492 \pm 0.020$	inches
111 00000	ιαροι			178.50 ± 1.50	60 +1 / -0	$13.00 \pm 0.20$	$9.00 \pm 0.50$	$12.50 \pm 0.50$	mm						
RPC1206			7 inches	$7.028 \pm 0.059$	2.362 +0.039 / -0	0.512 ± 0.008	$0.354 \pm 0.020$	$0.492 \pm 0.020$	inches						
101200			7 inches	178.50 ± 1.50	60 +1 / -0	13.00 ± 0.20	$9.00 \pm 0.50$	$12.50 \pm 0.50$	mm						
RPC1210				7.028 ± 0.059	2.362 +0.039 / -0	0.512 ± 0.008	$0.354 \pm 0.020$	$0.492 \pm 0.020$	inches						
INF C1210				178.50 ± 1.50	60 +1 / -0	13.00 ± 0.20	$9.00 \pm 0.50$	$12.50 \pm 0.50$	mm						
RPC2010				7.028 ± 0.059	2.362 +0.039 / -0	0.512 ± 0.020	0.512 ± 0.020	$0.610 \pm 0.020$	inches						
IXF 02010	Embossed	12 mm		178.50 ± 1.50	60 +1 / -0	13.00 ± 0.50	13.00 ± 0.50	$15.50 \pm 0.50$	mm						
RPC2512	EIIIDOSSEG	12 111111		7.028 ± 0.059	2.362 +0.039 / -0	0.512 ± 0.020	0.512 ± 0.020	$0.610 \pm 0.020$	inches						
KF 02512				178.50 ± 1.50	60 +1 / -0	13.00 ± 0.50	13.00 ± 0.50	15.50 ± 0.50	mm						

# Packaging Specifications - Paper Tape

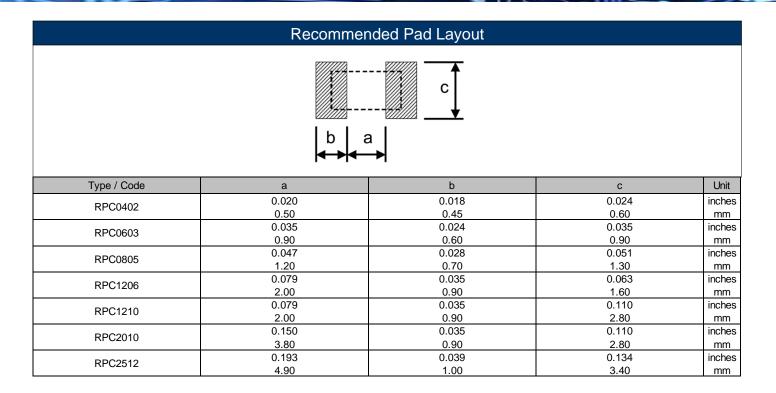


Type / Code	Α	В	W	Е	F	Unit
RPC0402	0.026 ± 0.004	0.045 ± 0.004	0.315 ± 0.008	0.069 ± 0.004	$0.138 \pm 0.002$	inches
KFC0402	0.65 ± 0.10	1.15 ± 0.10	$8.00 \pm 0.20$	1.75 ± 0.10	$3.50 \pm 0.05$	mm
RPC0603	$0.043 \pm 0.004$	$0.075 \pm 0.004$	0.315 ± 0.008	$0.069 \pm 0.004$	$0.138 \pm 0.002$	inches
KFC0003	1.10 ± 0.10	$1.90 \pm 0.10$	$8.00 \pm 0.20$	1.75 ± 0.10	$3.50 \pm 0.05$	mm
RPC0805	$0.063 \pm 0.004$	$0.094 \pm 0.008$	0.315 ± 0.008	$0.069 \pm 0.004$	$0.138 \pm 0.002$	inches
KFC0003	1.60 ± 0.10	$2.40 \pm 0.20$	$8.00 \pm 0.20$	1.75 ± 0.10	$3.50 \pm 0.05$	mm
RPC1206	0.075 ± 0.004	$0.138 \pm 0.008$	0.315 ± 0.008	$0.069 \pm 0.004$	$0.138 \pm 0.002$	inches
KFC1200	1.90 ± 0.10	$3.50 \pm 0.20$	$8.00 \pm 0.20$	1.75 ± 0.10	$3.50 \pm 0.05$	mm
RPC1210	0.114 ± 0.004	0.138 ± 0.008	0.315 ± 0.008	$0.069 \pm 0.004$	$0.138 \pm 0.002$	inches
RPC1210	2.90 ± 0.10	$3.50 \pm 0.20$	$8.00 \pm 0.20$	1.75 ± 0.10	$3.50 \pm 0.05$	mm
Type / Code	P <sub>0</sub>	P <sub>1</sub>	$P_2$	$ØD_0$	Т	Unit
RPC0402	0.157 ± 0.004	$0.079 \pm 0.002$	0.079 ± 0.002	$0.059 \pm 0.004$	$0.018 \pm 0.004$	inches
KFC0402	4.00 ± 0.10	$2.00 \pm 0.05$	$2.00 \pm 0.05$	1.50 ± 0.10	$0.45 \pm 0.10$	mm
RPC0603	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	$0.059 \pm 0.004$	$0.028 \pm 0.004$	inches
KFC0003	4.00 ± 0.10	$4.00 \pm 0.05$	$2.00 \pm 0.05$	1.50 ± 0.10	$0.70 \pm 0.10$	mm
RPC0805	0.157 ± 0.004	$0.157 \pm 0.002$	$0.079 \pm 0.002$	$0.059 \pm 0.004$	$0.033 \pm 0.004$	inches
KFC0003	4.00 ± 0.10	$4.00 \pm 0.05$	$2.00 \pm 0.05$	1.50 ± 0.10	$0.85 \pm 0.10$	mm
RPC1206	0.157 ± 0.004	$0.157 \pm 0.002$	$0.079 \pm 0.002$	$0.059 \pm 0.004$	$0.033 \pm 0.004$	inches
KFC1200	4.00 ± 0.10	$4.00 \pm 0.05$	$2.00 \pm 0.05$	1.50 ± 0.10	$0.85 \pm 0.10$	mm
RPC1210	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	$0.059 \pm 0.004$	$0.033 \pm 0.004$	inches
RECIZIO	$4.00 \pm 0.10$	$4.00 \pm 0.05$	$2.00 \pm 0.05$	1.50 ± 0.10	$0.85 \pm 0.10$	mm

# Packaging Specifications – Embossed Plastic Tape

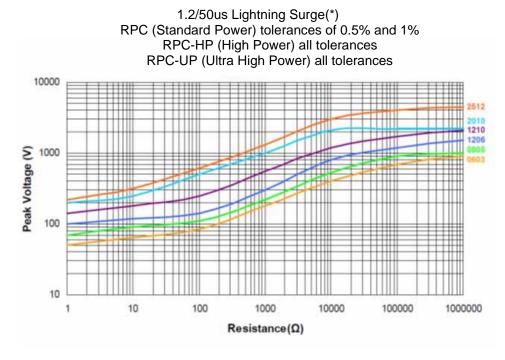


Type / Code	Α	В	W	E	F	Unit
RPC2010	0.110 ± 0.004	0.217 ± 0.004	0.472 ± 0.012	0.069 ± 0.004	0.217 ± 0.002	inches
KF 02010	$2.80 \pm 0.10$	$5.50 \pm 0.10$	12.00 ± 0.30	1.75 ± 0.10	$5.50 \pm 0.05$	mm
DDC2512	0.138 ± 0.004	$0.264 \pm 0.004$	0.472 ± 0.012	$0.069 \pm 0.004$	$0.217 \pm 0.002$	inches
RPC2512	$3.50 \pm 0.10$	$6.70 \pm 0.10$	12.00 ± 0.30	1.75 ± 0.10	$5.50 \pm 0.05$	mm
Type / Code	P <sub>0</sub>	P <sub>1</sub>	P <sub>2</sub>	ØD <sub>0</sub>	Т	Unit
RPC2010	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.059 ± 0.004	0.047 - 0.000	inches
RPG2010	4.00 ± 0.10	$4.00 \pm 0.10$	$2.00 \pm 0.05$	1.50 ± 0.10	1.20 - 0.00	mm
RPC2512	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.059 ± 0.004	0.047 - 0.000	inches
KF02012	4.00 ± 0.10	$4.00 \pm 0.10$	2.00 ± 0.05	1.50 ± 0.10	1.20 - 0.00	mm



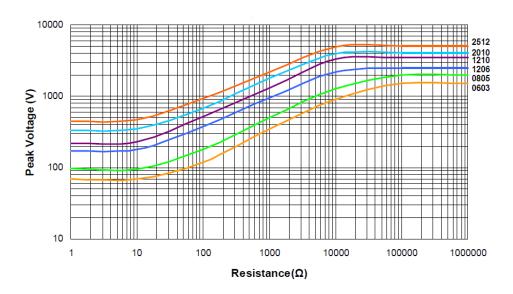
## Lightning Surge

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.

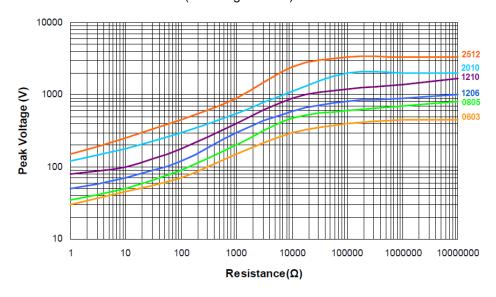


(\*) Note: Data provided shows typical performance and is for reference only.

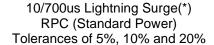
1.2/50us Lightning Surge(\*) RPC (Standard Power) Tolerances of 5%, 10% and 20%

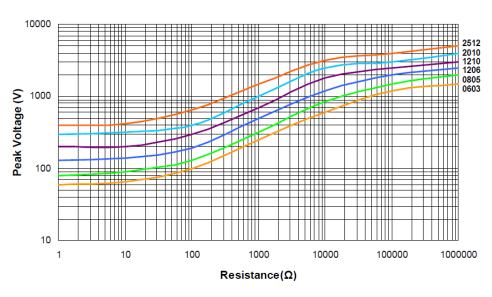


10/700us Lightning Surge(\*)
RPC (Standard Power) tolerances of 0.5% and 1%
RPC-HP (High Power) all tolerances
RPC-UP (Ultra High Power) all tolerances



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



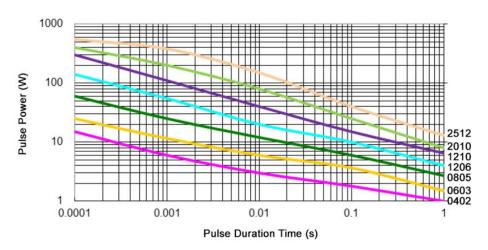


(\*) Note: Data provided shows typical performance and is for reference only.

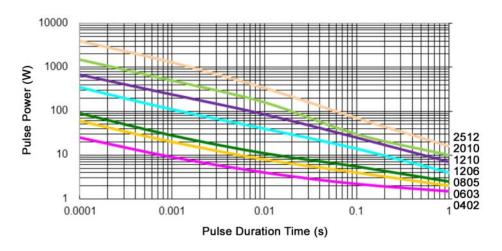
### **Pulse Withstand Capacity**

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 Ohm)
RPC (Standard Power) tolerances of 0.5% and 1%
RPC-HP (High Power) all tolerances
RPC-UP (Ultra High Power) all tolerances



Single Pulse Power (100 Ohm) RPC (Standard Power) Tolerances of 5%, 10% and 20%



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

#### Continuous Pulse

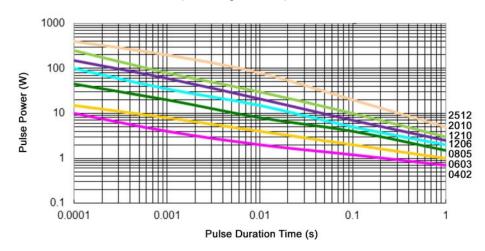
The continuous load graph was obtained by applying repetitive rectangular pulses where the pulse period was adjusted so that the average power dissipated in the resistor was equal to its rated power at 70 °C. Again, the limit of acceptance was a shift in resistance of less than 1% from the initial value.

Continuous Pulse Power (100 Ohm)

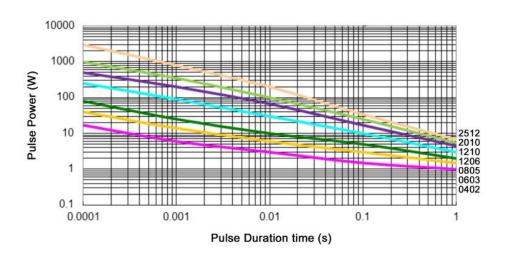
RPC (Standard Power) tolerances of 0.5% and 1%

RPC-HP (High Power) all tolerances

RPC-UP (Ultra High Power) all tolerances



Continuous Pulse Power (100 Ohm) RPC (Standard Power) Tolerances of 5%, 10% and 20%

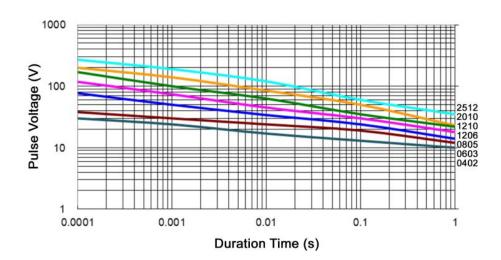


Pulse Voltage (100 Ohm)

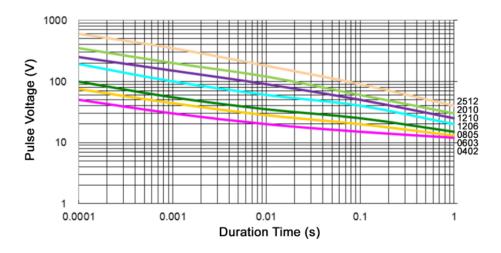
RPC (Standard Power) tolerances of 0.5% and 1%

RPC-HP (High Power) all tolerances

RPC-UP (Ultra High Power) all tolerances



Pulse Voltage (100 Ohm) RPC (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.

	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)				
RPC	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-l.

## "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.

# Stackpole Electronics, Inc.

Pulse Withstanding Thick Film Chip Resistor

Resistive Product Solutions

## **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.

