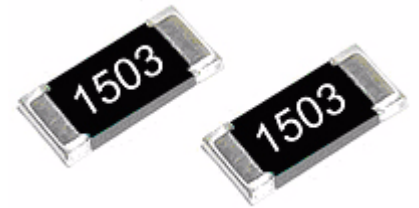


Features:

- Special passivation for moisture sensitive applications
- Absolute TCR's to 15 ppm/°C
- Test proven immunity to humidity and moisture corrosion
- Absolute tolerances to 0.1%
- Ideal replacement for costly Tantalum Nitride resistors
- Qualified to AEC-Q200
- E192 values are not marked
- 100% RoHS compliant and lead free without exemption
- Halogen free
- REACH compliant
- For anti-sulfur version, refer to [RNCS-AS specification](#)



The RNCS/RNCH series employs a special manufacturing process to ensure high power, high precision, ultra-stable performance, and long life in the harshest environments. In moisture comparison testing, the RNCS/RNCH series outperformed conventionally passivated Nichrome chip resistors and demonstrated the anti-corrosive claims characterized by Tantalum Nitride resistor products.

Electrical Specifications - RNCS					
Type/Code	Power Rating (W) @ 70°C	Maximum Working Voltage (V) ⁽¹⁾	Maximum Overload Voltage (V)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance
					0.1%, 0.25%, 0.5%
RNCS0402	0.063	25	50	±15	49.9 - 12K
				±25	25 - 24.9K
				±50	
RNCS0603	0.063	50	100	±15 ±25 ±50	25 - 332K
RNCS0805	0.1	100	200	±15 ±25 ±50	10 - 1M
RNCS1206	0.125	150	300	±15 ±25 ±50	10 - 1M
RNCS2010	0.25 (0.5) ⁽²⁾	150	300	±15	25 - 1M
				±25	10 - 1M
				±50	
RNCS2512	0.5 (1) ⁽²⁾	150	300	±15	25 - 1M
				±25	10 - 1M
				±50	

(1) Lesser of $\sqrt{P \cdot R}$ or maximum working voltage

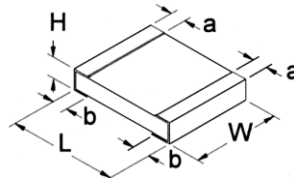
(2) Higher power rating for each package size is valid if ambient temperature $\leq 80^\circ\text{C}$ and terminal temperature $\leq 105^\circ\text{C}$

Electrical Specifications - RNCH

Type/Code	Power Rating (W) @ 70 °C	Maximum Working Voltage (V) ⁽¹⁾	Maximum Overload Voltage (V)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance
					0.1%, 0.25%, 0.5%
RNCH0603	0.1	75	150	±15 ±25 ±50	25 - 220K
RNCH0805	0.25	150	300	±15 ±25 ±50	25 - 680K
RNCH1206	0.33	200	400	±15 ±25 ±50	25 - 1M

(1) Lesser of $\sqrt{P \cdot R}$ or maximum working voltage

Mechanical Specifications



Type/Code	Weight (g) (1000 pc.)	L Body Length	W Body Width	H Body Height	a Top Termination	b Bottom Termination	Unit
RNCS0402	0.55	0.039 ± 0.002 1.00 ± 0.05	0.020 ± 0.002 0.50 ± 0.05	0.012 ± 0.002 0.30 ± 0.05	0.008 ± 0.004 0.20 ± 0.10	0.008 ± 0.004 0.20 ± 0.10	inches mm
RNCS0603 RNCH0603	1.85	0.061 ± 0.008 1.55 ± 0.20	0.031 ± 0.008 0.80 ± 0.20	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
RNCS0805 RNCH0805	4.76	0.079 ± 0.008 2.00 ± 0.20	0.049 ± 0.008 1.25 ± 0.20	0.022 ± 0.004 0.55 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.016 ± 0.010 0.40 ± 0.25	inches mm
RNCS1206 RNCH1206	9.11	0.120 ± 0.008 3.05 ± 0.20	0.061 ± 0.008 1.55 ± 0.20	0.022 ± 0.004 0.55 ± 0.10	0.017 ± 0.012 0.42 ± 0.30	0.014 ± 0.010 0.35 ± 0.25	inches mm
RNCS2010	23.82	0.193 ± 0.006 4.90 ± 0.15	0.094 ± 0.006 2.40 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.012 0.60 ± 0.30	0.020 ± 0.010 0.50 ± 0.25	inches mm
RNCS2512	38.46	0.248 ± 0.006 6.30 ± 0.15	0.122 ± 0.006 3.10 ± 0.15	0.022 ± 0.004 0.55 ± 0.10	0.024 ± 0.012 0.60 ± 0.30	0.020 ± 0.010 0.50 ± 0.25	inches mm

Performance Characteristics

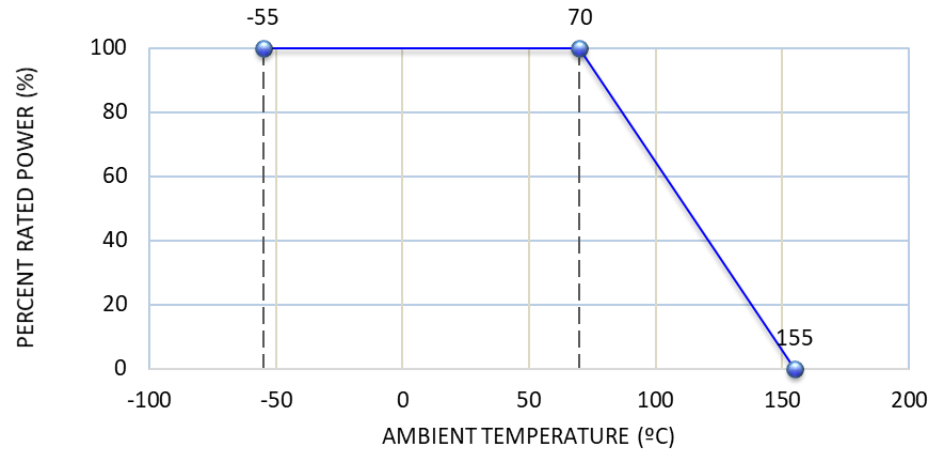
Test	Test Method	Test Specification		Test Condition
		0603, 0805, 1206, 2010, 2512	0402	
Short Time Overload	JIS-C-5201-1 4.13	≤ ± 0.02% ≤ ± 0.2% for high power rating	≤ ± 0.1%	RCWV * 2.5 or Max. overload voltage whichever is lower for 2 seconds
Endurance	MIL-STD-202 Method 108A	≤ ± 0.05% ≤ ± 0.25% for high power rating	≤ ± 0.25%	70 ± 2°C, RCWV for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"
Damp Heat with Load	MIL-STD-202 Method 103B	≤ ± 0.05% ≤ ± 0.25% for high power rating	≤ ± 0.5%	40 ± 2°C, 90 ~ 95% R.H., RCWV for 1000 hours with 1.5 hours "ON" and 0.5 hour "OFF"
Solderability	MIL-STD-202 Method 208H	95% min. coverage		245 ± 5°C for 3 seconds
Resistance to Soldering Heat	MIL-STD-202 Method 210E	≤ ± 0.02%	≤ ± 0.1%	260 ± 5°C for 10 seconds
Thermal Shock	MIL-STD-202 Method 107G	≤ ± 0.02%	≤ ± 0.1%	-55°C ~ 150°C, 100 cycles

RCWV (Rated Continuous Work Voltage) = $\sqrt{P \cdot R}$ or Max. Operating voltage whichever is lower

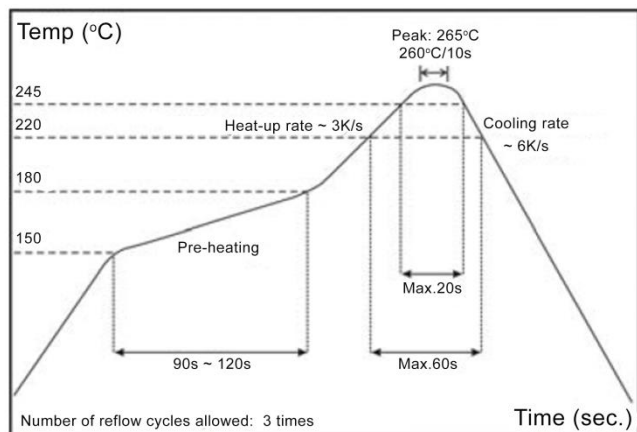
Operating temperature range is -55°C to +155°C

Storage Temperature is 15°C to 28°C. Humidity < 80% R.H.

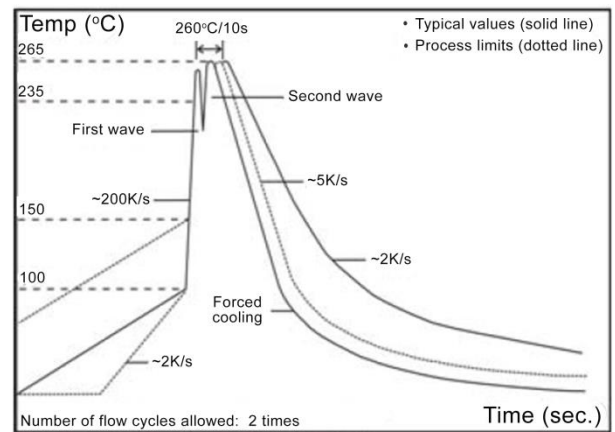
Power Derating Curve:



Soldering Condition:



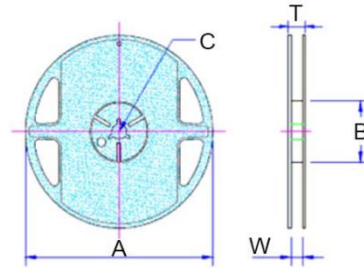
IR Reflow Soldering



Wave Soldering (Flow Soldering)

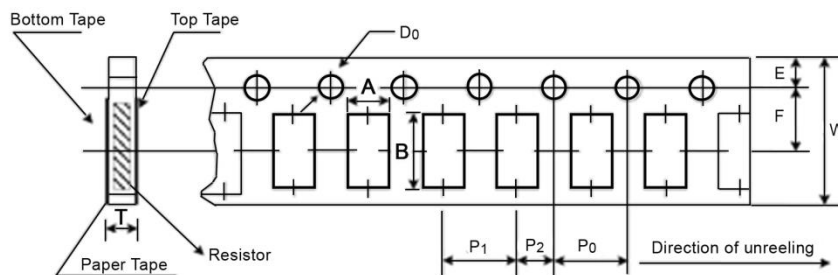
- (1) Time of IR reflow soldering at maximum temperature point 260°C: 10 seconds
- (2) Time of wave soldering at maximum temperature point 260°C: 10 seconds
- (3) Time of soldering iron at maximum temperature point 410°C: 5 seconds

Reel Specifications



Type/Code	A	B	C	W	T	Unit
RNCS0402	7.008 ± 0.039 178.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.531 ± 0.028 13.50 ± 0.70	0.374 ± 0.039 9.50 ± 1.00	0.453 ± 0.039 11.50 ± 1.00	inches mm
RNCS0603	7.008 ± 0.039 178.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.531 ± 0.028 13.50 ± 0.70	0.374 ± 0.039 9.50 ± 1.00	0.453 ± 0.039 11.50 ± 1.00	inches mm
RNCS0805	7.008 ± 0.039 178.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.531 ± 0.028 13.50 ± 0.70	0.374 ± 0.039 9.50 ± 1.00	0.453 ± 0.039 11.50 ± 1.00	inches mm
RNCS1206	7.008 ± 0.039 178.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.531 ± 0.028 13.50 ± 0.70	0.374 ± 0.039 9.50 ± 1.00	0.453 ± 0.039 11.50 ± 1.00	inches mm
RNCS2010	7.008 ± 0.039 178.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.531 ± 0.028 13.50 ± 0.70	0.531 ± 0.039 13.50 ± 1.00	0.610 ± 0.039 15.50 ± 1.00	inches mm
RNCS2512	7.008 ± 0.039 178.00 ± 1.00	2.362 ± 0.039 60.00 ± 1.00	0.531 ± 0.028 13.50 ± 0.70	0.531 ± 0.039 13.50 ± 1.00	0.610 ± 0.039 15.50 ± 1.00	inches mm

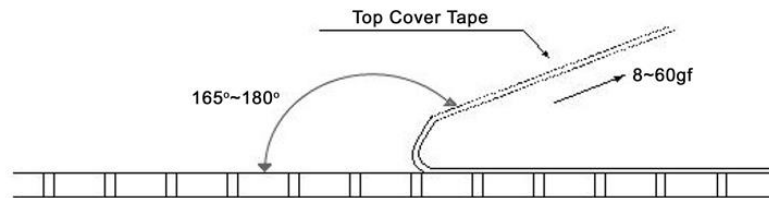
Packaging Specifications - Paper Tape



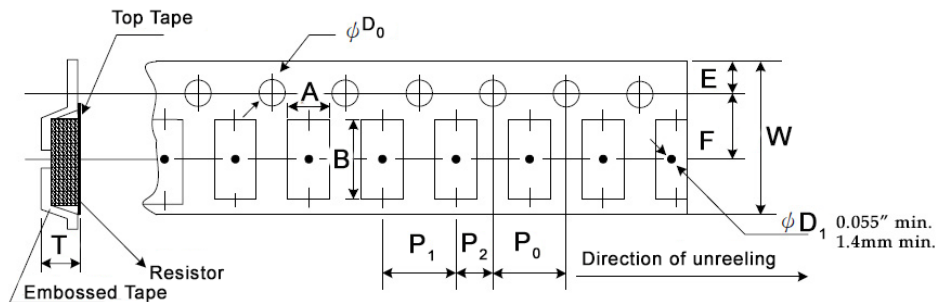
Type/Code	A	B	W	E	F	Unit
RNCS0402	0.028 ± 0.002 0.70 ± 0.05	0.046 ± 0.002 1.16 ± 0.05	0.315 ± 0.004 8.00 ± 0.10	0.069 ± 0.020 1.75 ± 0.50	0.138 ± 0.002 3.50 ± 0.05	inches mm
RNCS0603	0.043 ± 0.002 1.10 ± 0.05	0.075 ± 0.002 1.90 ± 0.05	0.315 ± 0.004 8.00 ± 0.10	0.069 ± 0.002 1.75 ± 0.05	0.138 ± 0.002 3.50 ± 0.05	inches mm
RNCS0805	0.063 ± 0.002 1.60 ± 0.05	0.093 ± 0.002 2.37 ± 0.05	0.315 ± 0.004 8.00 ± 0.10	0.069 ± 0.002 1.75 ± 0.05	0.138 ± 0.002 3.50 ± 0.05	inches mm
RNCS1206	0.079 ± 0.002 2.00 ± 0.05	0.140 ± 0.002 3.55 ± 0.05	0.315 ± 0.004 8.00 ± 0.10	0.069 ± 0.002 1.75 ± 0.05	0.138 ± 0.002 3.50 ± 0.05	inches mm
Type/Code	P0	P1	P2	D0	T	Unit
RNCS0402	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.079 ± 0.002 2.00 ± 0.05	0.061 ± 0.002 1.55 ± 0.05	0.016 ± 0.001 0.40 ± 0.03	inches mm
RNCS0603	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.061 ± 0.002 1.55 ± 0.05	0.024 ± 0.001 0.60 ± 0.03	inches mm
RNCS0805	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.061 ± 0.002 1.55 ± 0.05	0.030 ± 0.002 0.75 ± 0.05	inches mm
RNCS1206	0.157 ± 0.004 4.00 ± 0.10	0.157 ± 0.004 4.00 ± 0.10	0.079 ± 0.002 2.00 ± 0.05	0.061 ± 0.002 1.55 ± 0.05	0.030 ± 0.002 0.75 ± 0.05	inches mm

Peel Force of Top Cover Paper Tape

The peel speed shall be about 300 mm/min $\pm$ 5%
The peel force of top cover tape shall be between 8gf to 60gf



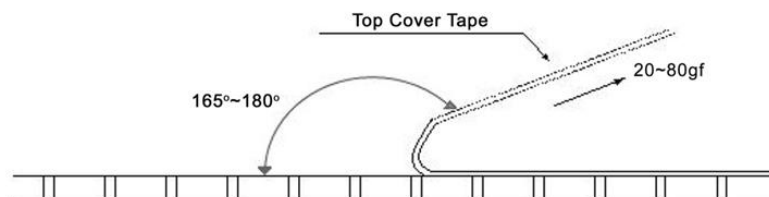
Packaging Specifications – Embossed Plastic Tape



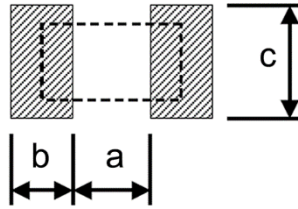
Type/Code	A	B	W	E	F	Unit
RNCS2010	0.112 $\pm$ 0.004	0.215 $\pm$ 0.004	0.472 $\pm$ 0.004	0.069 $\pm$ 0.004	0.217 $\pm$ 0.002	inches
	2.85 $\pm$ 0.10	5.45 $\pm$ 0.10	12.00 $\pm$ 0.10	1.75 $\pm$ 0.10	5.50 $\pm$ 0.05	mm
RNCS2512	0.134 $\pm$ 0.004	0.262 $\pm$ 0.004	0.472 $\pm$ 0.004	0.069 $\pm$ 0.004	0.217 $\pm$ 0.002	inches
	3.40 $\pm$ 0.10	6.65 $\pm$ 0.10	12.00 $\pm$ 0.10	1.75 $\pm$ 0.10	5.50 $\pm$ 0.05	mm
Type/Code	P0	P1	P2	D0	T	Unit
RNCS2010	0.157 $\pm$ 0.002	0.157 $\pm$ 0.004	0.079 $\pm$ 0.002	0.059 $\pm$ 0.004	0.039 $\pm$ 0.008	inches
	4.00 $\pm$ 0.05	4.00 $\pm$ 0.10	2.00 $\pm$ 0.05	1.50 $\pm$ 0.10	1.00 $\pm$ 0.20	mm
RNCS2512	0.157 $\pm$ 0.002	0.157 $\pm$ 0.004	0.079 $\pm$ 0.002	0.059 $\pm$ 0.004	0.039 $\pm$ 0.008	inches
	4.00 $\pm$ 0.05	4.00 $\pm$ 0.10	2.00 $\pm$ 0.05	1.50 $\pm$ 0.10	1.00 $\pm$ 0.20	mm

Peel Force of Top Cover Plastic Tape

The peel speed shall be about 300 mm/min $\pm$ 5%
The peel force of top cover tape shall be between 20gf to 80gf



Recommended Pad Layout



Type/Code	a	b	c	Unit
RNCS0402	0.020 0.50	0.020 0.50	0.024 ± 0.008 0.60 ± 0.20	inches mm
RNCS0603 RNCH0603	0.031 0.80	0.039 1.00	0.035 ± 0.008 0.90 ± 0.20	inches mm
RNCS0805 RNCH0805	0.039 1.00	0.039 1.00	0.053 ± 0.008 1.35 ± 0.20	inches mm
RNCS1206 RNCH1206	0.079 2.00	0.045 1.15	0.067 ± 0.008 1.70 ± 0.20	inches mm
RNCS2010	0.142 3.60	0.055 1.40	0.098 ± 0.008 2.50 ± 0.20	inches mm
RNCS2512	0.193 4.90	0.063 1.60	0.122 ± 0.008 3.10 ± 0.20	inches mm

Part Marking Instructions



1% Marking

The nominal resistance is marked on the surface of the overcoating with the use of 4 digit markings. 0201 and 0402 are not marked.



5% Marking

The nominal resistance is marked on the surface of the overcoating with the use of 3 digit markings. 0201 and 0402 are not marked.

For shared E24/E96 values, 1% tolerance product may be marked with three-digit marking instead of the standard four-digit marking for all other E96 values. All E24 values available in 1% tolerance are also marked with three-digit marking.

Marking Instructions for 0603 1% Chip Resistors (per EIA-J)

A two-digit number is assigned to each standard R-Value (E96) as shown in the chart below. This is followed by one alpha character which is used as a multiplier. Each letter represents a specific multiplier as follows:

Z = 0.01	A = 10	D = 10,000
Y = 0.1	B = 100	E = 100,000
X = 1	C = 1,000	F = 1,000,000

EXAMPLE:

Chip Marking	Explanation	Value
01B	01 means 10.0 and B = 100	10.0 x 100 = 1 Kohm
25C	25 means 17.8 and C = 1,000	17.8 x 1,000 = 17.8 Kohm
93D	93 means 90.9 and D = 10,000	90.9 x 10,000 = 909 Kohm

E96											
#	R-Value	#	R-Value	#	R-Value	#	R-Value	#	R-Value	#	R-Value
01	10.0	17	14.7	33	21.5	49	31.6	65	46.4	81	68.1
02	10.2	18	15.0	34	22.1	50	32.4	66	47.5	82	69.8
03	10.5	19	15.4	35	22.6	51	33.2	67	48.7	83	71.5
04	10.7	20	15.8	36	23.2	52	34.0	68	49.9	84	73.2
05	11.0	21	16.2	37	23.7	53	34.8	69	51.1	85	75.0
06	11.3	22	16.5	38	24.3	54	35.7	70	52.3	86	76.8
07	11.5	23	16.9	39	24.9	55	36.5	71	53.6	87	78.7
08	11.8	24	17.4	40	25.5	56	37.4	72	54.9	88	80.6
09	12.1	25	17.8	41	26.1	57	38.3	73	56.2	89	82.5
10	12.4	26	18.2	42	26.7	58	39.2	74	57.6	90	84.5
11	12.7	27	18.7	43	27.4	59	40.2	75	59.0	91	86.6
12	13.0	28	19.1	44	28.0	60	41.2	76	60.4	92	88.7
13	13.3	29	19.6	45	28.7	61	42.2	77	61.9	93	90.9
14	13.7	30	20.0	46	29.4	62	43.2	78	63.4	94	93.1
15	14.0	31	20.5	47	30.1	63	44.2	79	64.9	95	95.3
16	14.3	32	21.0	48	30.9	64	45.3	80	66.5	96	97.6

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)
RNCH	Anti-Corrosive Tantalum Nitride Replacement Surface Mount Chip Resistor	SMD	YES	100% Matte Sn over Ni	Always	Always
RNCS	Anti-Corrosive Tantalum Nitride Replacement Surface Mount Chip Resistor	SMD	YES	100% Matte Sn over Ni	May-04	04/18

"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

R N C S 0 8 0 5 D T E 4 K 7 5													
Product Series		Size		Tolerance			Packaging				TCR		Resistance Value
		Code	W	Code	Tol	Value ⁽¹⁾	Code	Description	Size	Quantity	Code	ppm	
RNCS	Moisture Resistant Precision Thin Film Chip Resistor	0402	0.063	B	0.1%	E192, E96, E24	T	7" Reel	0402	10000	S	15	Four characters with the multiplier used as the decimal holder. 10 ohm = 10R0 800 Kohm = 800K 1 Mohm = 1M00
		0603	0.063	C	0.25%			Paper Tape	0603, 0805, 1206	5000	E	25	
		0805	0.1	D	0.5%			7" Reel	2010, 2512	4000	C	50	
		1206	0.125				K	7" Reel	All Sizes	1000			
RNCH	High Power	2010	0.25										
		2010	0.5 ⁽²⁾										
		2512	0.5										
		2512	1 ⁽²⁾										

(1) E192 values are not marked, and may be subject to 20K MOQ

(2) Higher power rating is valid if ambient temperature ≤ 80°C and terminal temperature ≤ 105°C

Mouser Electronics

Authorized Distributor

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[SEI Stackpole:](#)

<u>RNCS0805BKE10R0</u>	<u>RNCS1206BKE100R</u>	<u>RNCS0603BKE4K99</u>	<u>RNCS1206BKE10K0</u>	<u>RNCS1206BKE10R0</u>
<u>RNCS0805BKE4K99</u>	<u>RNCS0603BKE150K</u>	<u>RNCS0603BKE3K01</u>	<u>RNCS1206BKE80K6</u>	<u>RNCS1206BKE100K</u>
<u>RNCS0603BKE49R9</u>	<u>RNCS0603BKE1K00</u>	<u>RNCS1206BKE1K00</u>	<u>RNCS0805BKE10K0</u>	<u>RNCS0603BKE10K0</u>
<u>RNCS0805BKE49R9</u>	<u>RNCS0805BKE1K00</u>	<u>RNCS1206BKE1M00</u>	<u>RNCS0603BKE147K</u>	<u>RNCS0603BKE21K5</u>
<u>RNCS0603BKE30K1-AS</u>	<u>RNCS0603BKE3K57</u>	<u>RNCS0603BKE681R</u>	<u>RNCS0603BTE255R</u>	<u>RNCS0603BTE5K11</u>
<u>RNCS0805BKE100R</u>	<u>RNCS0805BKE22K1</u>	<u>RNCS0805BKE470K</u>	<u>RNCS0805BTC1K27</u>	<u>RNCS0805BTC5K62</u>
<u>RNCS0805BTE150K</u>	<u>RNCS1206BKC100K</u>	<u>RNCS1206BKE182K</u>	<u>RNCS1206BKE20K0</u>	<u>RNCS1206BKE249K</u>
<u>RNCS1206BKE2K21</u>	<u>RNCS1206BKE31K6</u>	<u>RNCS1206BKE40R2</u>	<u>RNCS1206BKE97R6</u>	<u>RNCS1206BTE11K5</u>
<u>RNCS1206BTE25K8</u>	<u>RNCS1206BTE392R</u>	<u>RNCS1206BTE3K24</u>	<u>RNCS0402BTC10R0</u>	<u>RNCS0402BTE19K1</u>
<u>RNCS0603BKE10K5</u>	<u>RNCS0603BKE35K7</u>	<u>RNCS0603BKE7K15</u>	<u>RNCS0603BTC47K0</u>	<u>RNCS0603BTE30K1</u>
<u>RNCS0603BTE76K8</u>	<u>RNCS0603BTE7K68</u>	<u>RNCS0805BKE143K</u>	<u>RNCS0805BKE1K50</u>	<u>RNCS0805BKE2K21</u>
<u>RNCS0805BKE9K31</u>	<u>RNCS0805BTC10K0</u>	<u>RNCS0805BTC24K9</u>	<u>RNCS0805BTE1K10</u>	<u>RNCS0805BTE88K5</u>
<u>RNCS1206BKE198K</u>	<u>RNCS1206BKE1K01</u>	<u>RNCS1206BKE1K65</u>	<u>RNCS1206BKE25K8</u>	<u>RNCS1206BKE274K</u>
<u>RNCS1206BKE2K71</u>	<u>RNCS1206BKE35K7</u>	<u>RNCS1206BKE36K5</u>	<u>RNCS1206BKE3K40</u>	<u>RNCS1206BKE56K2</u>
<u>RNCS1206BTE45K3</u>	<u>RNCS2512BKE22R1</u>	<u>RNCS0402BKE19K1</u>	<u>RNCS0402BTE1K43</u>	<u>RNCS0402DTE5K11</u>
<u>RNCS0603BKE43K2</u>	<u>RNCS0603BTE13K0</u>	<u>RNCS0603BTE1K33</u>	<u>RNCS0603BTE2K49</u>	<u>RNCS0603BTE35K7</u>
<u>RNCS0603BTE3K57</u>	<u>RNCS0603BTE56K0</u>	<u>RNCS0603BTE71K5</u>	<u>RNCS0805BKE120K</u>	<u>RNCS0805BKE2K49</u>
<u>RNCS0805BKE37K0</u>	<u>RNCS0805BKE3K70</u>	<u>RNCS0805BKE49K9</u>	<u>RNCS0805BKE732R</u>	<u>RNCS0805BKE7K50</u>
<u>RNCS0805BTC21K5</u>	<u>RNCS0805BTC8K25</u>	<u>RNCS0805BTE14K3</u>	<u>RNCS0805BTE3K48</u>	<u>RNCS1206BKE102K</u>
<u>RNCS1206BKE11K0</u>	<u>RNCS1206BKE187K</u>	<u>RNCS1206BKE1K10</u>	<u>RNCS1206BKE2K43</u>	<u>RNCS1206BKE357K</u>