

RHC Series – High Power Thick Film Chip Resistors

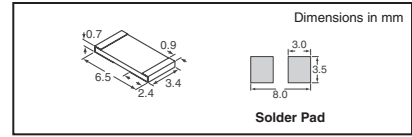


Resistance Value Chart

0.1	68	1K	15K
1	100	1.5K	22K
10	150	2.2K	33K
15	220	3.3K	47K
22	330	4.7K	68K
33	470	6.8K	100K
47	680	10K	

- Features:**
- 2 Watts of power
 - Runs significantly cooler than standard thick film 2512 chip

Type	Power Rating @ 70°C	Maximum Voltage	Temperature Coefficient
RHC2512	2 Watt	400	±100ppm/°C



Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing 4,000
				1	10	25		
0.1 – 100K	2	1%	RHC2512-(Value)FCT-ND	1.95	1.35	1.25	RHC2512-(Value)FTR-ND	260.00/M

† For complete part number, substitute value from Resistance Value Chart for (Value).

RNCS Series – Anti-Corrosive Tantalum Nitride Replacement Resistors



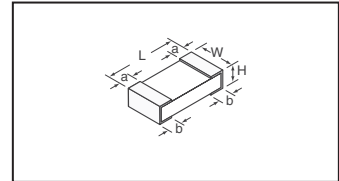
Resistance Value Chart RNCS16 and RNCS20 Series

10\$▲	332†▲	2.49K†▲	12.1K†▲	68.1K†▲
49.9†▲	475†▲	2.74K†▲	15K†▲	75K†▲
75†▲	499†▲	3.01K†▲	20K†▲	100K†▲
100†▲	681†▲	3.32K†▲	22.1K†▲	150K†▲
121†▲	750†▲	4.75K†▲	24.9K†▲	200K†▲
150†▲	825†▲	4.99K†▲	27.4K†▲	249K†▲
200†▲	1K†▲	6.81K†▲	30.1K†▲	499K\$▲
221†▲	1.5K†▲	7.5K†▲	33.2K†▲	
249†▲	2K†▲	8.25K†▲	47.5K†▲	
301†▲	2.21K†▲	10K†▲	49.9K†▲	

Resistance Value Chart RNCS32 Series

10
100
1K
10K
100K
1M

- Features:**
- Special passivation for moisture sensitive applications
 - Test proven immunity to humidity and moisture corrosion
 - Ideal replacement for costly tantalum nitride resistors



Type	Size Code	Dimensions — mm				
		L	W	H	a	b
RNCS16	0603	1.6 ±0.2	0.8 ±0.2	0.4 ±0.1	0.3 ±0.2	0.3 ±0.2
RNCS20	0805	2.0 ±0.2	1.25 ±0.2	0.4 ±0.1	0.4 ±0.2	0.4 ±0.2
RNCS32	1206	3.2 ±0.2	1.6 ±0.2	0.5 ±0.1	0.5 ±0.3	0.4 ±0.2

\$ Not available in RNCS16 Series

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	25		
49.9 – 249K	0.1	±0.1%	±25ppm/°C	RNCS16T9(Value)0.1%ICT-ND	.53	3.67	8.50	RNCS16T9(Value)0.1%ITR-ND	109.00
10 – 499K	0.125	±0.1%	±25ppm/°C	RNCS20T9(Value)0.1%ICT-ND	.53	3.67	8.50	RNCS20T9(Value)0.1%ITR-ND	109.00
10 – 1M	0.25	±0.1%	±25ppm/°C	RNCS32T9(Value)0.1%ICT-ND	.62	4.32	10.00	RNCS32T9(Value)0.1%ITR-ND	112.00

† For complete part number, substitute value from Resistance Value Chart for (Value).

NEW! Kits

† RNCS16T90.1%KIT-ND	RNCS 0603 Series Resistors Kit (20 each of values denoted)	\$91.00
▲ RNCS20T90.1%KIT-ND	RNCS 0805 Series Resistors Kit (20 each of values denoted)	\$98.00

HPC Series – High Power Surface Mount Resistors



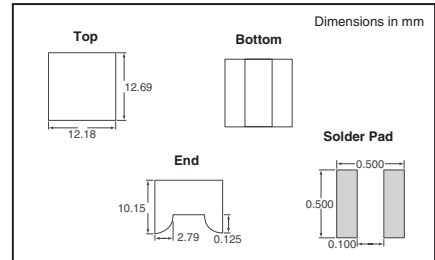
Resistance Value Chart

0.05	2	12	50	1K
0.1	5.1	22	100	
0.5	8.2	33	250	
1	10	47	500	

- Features:**
- Up to 12W with no external heat sinks
 - Non-inductive resistive element
 - Up to 50W for short duration
- Electrical Specifications:**
- Maximum Voltage: 200V
 - Temperature Coefficient: ±150ppm/°C

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	
				1	10	25		200	400
0.05 – 1K	5	5%	HPC12-(Value)JCT-ND	9.75	6.75	6.25	HPC12-(Value)JTR-ND	487.60	800.00

† For complete part number, substitute value from Resistance Value Chart for (Value).



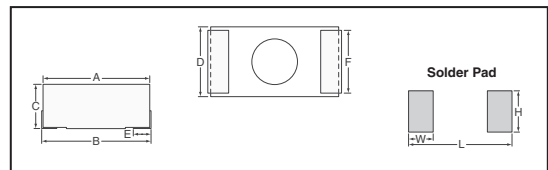
SM Series – Surface Mount Wirewound Resistors



Resistance Value Chart

Type	Dimensions — mm								
	A	B	C	D	E	F	W	H	L
SM2	10.4	11.1	4.6	6.1	2.5	2.9	4.0	4.0	13.7
SM3	16.0	18.0	6.5	7.0	2.8	2.9	5.0	4.2	21.6

- Features:**
- High temperature molded encapsulation
 - Flex termination for absorbing thermal expansion
 - All welded construction
 - Tinned copper terminals
- Electrical Specifications:**
- Maximum Voltage: SM2: 50V; SM3: 100V
 - Temperature Coefficient: SM2: ±100ppm/°C; SM3: ±100ppm/°C



Resistance Range (Ω)	Wattage	Tolerance	Digi-Key Part No.†	Cut Tape Price Each			Digi-Key Part No.†	Tape and Reel Pricing			
				1	10	25		750	800	1,500	1,600
0.01 – 0.05	2	1%	SM2-(Value)FCT-ND	3.04	2.11	1.95	SM2-(Value)FTR-ND	—	452.80	—	519.00/M
0.1 – 0.5			SM2-(Value)FCT-ND	2.73	1.89	1.75	SM2-(Value)FTR-ND	—	406.40	—	466.00/M
1 – 250			SM2-(Value)FCT-ND	2.34	1.62	1.50	SM2-(Value)FTR-ND	—	348.00	—	399.00/M
0.01 – 0.05	3	1%	SM3-(Value)FCT-ND	3.98	2.76	2.55	SM3-(Value)FTR-ND	535.50	—	663.00/M	—
0.1 – 0.5			SM3-(Value)FCT-ND	3.51	2.43	2.25	SM3-(Value)FTR-ND	489.75	—	599.00/M	—
1 – 250			SM3-(Value)FCT-ND	2.96	2.06	1.90	SM3-(Value)FTR-ND	413.25	—	505.00/M	—

† For complete part number, substitute value from Resistance Value Chart for (Value).

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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