



0402 / 0603 / 0805 / 1206 SMD 0.02%, 0.05%, 0.1%, 0.5% Thin Film Chip Resistors
 Ultra Precision / Ultra Reliable — RG Series: 1/16, 1/10, 1/8 and 1/4W; RGH Series: 1/6 and 1/4W (Cont.)

Description	Value Range (Ω)	TCR ppm/°C	Maximum Operating Voltage (V)	Dimensions (mm)				Digi-Key Part No.\$	Cut Tape Pricing			Digi-Key Part No.\$	Tape and Reel Pricing		Susumu Part No.
				L	W	P	T		10	50	200		Qty.	Pricing	
0.05%, 0805, 1/8W	47 – 470K	±10 (N)	100	2.0	1.25	0.4	0.4	RG20N(Value)WCT-ND	8.99	36.96	135.86	RG20N(Value)WTR-ND	1,000	269.87	RG2012N-xxx-W-T1
0.1%, 0402, 1/16W	47 – 100K	±25 (P)	25	1.0	0.5	0.25	0.35	RG10P(Value)BCT-ND	4.32	13.05	43.14	RG10P(Value)BTR-ND	5,000	61.67/M	RG1005P-xxx-B-T5
0.1%, 0603, 1/10W	47.0 – 332K	±25 (P)	75	1.6	0.8	0.3	0.4	RG16P(Value)BCT-ND	3.28	9.92	32.78	RG16P(Value)BTR-ND	5,000	46.45/M	RG1608P-xxx-B-T5
0.1%, 0805, 1/8W	47.0 – 1.0M	±25 (P)	100	2.0	1.25	0.4	0.4	RG20P(Value)BCT-ND	3.28	9.92	32.78	RG20P(Value)BTR-ND	5,000	46.45/M	RG2012P-xxx-B-T5
0.1%, 1206, 1/4W	47 – 1.0M	±25 (P)	150	3.2	1.6	0.5	0.4	RG32P(Value)BCT-ND	4.90	17.43	54.49	RG32P(Value)BTR-ND	1,000	101.70	RG3216P-xxx-B-T1
0.5%, 0402, 1/16W	10.0 – 33.0	±100 (R)	25	1.0	0.5	0.2	0.35	RG10R(Value)DCT-ND	3.34	9.54	30.65	RG10R(Value)DTR-ND	10,000	36.84/M	RG1005R-xxx-D-T10
0.5%, 0402, 1/16W	47.0 – 100K	±25 (P)	25	1.0	0.5	0.2	0.35	RG10P(Value)DCT-ND	1.62	4.44	13.51	RG10P(Value)DTR-ND	10,000	12.82/M	RG1005P-xxx-D-T10
RGH Series															
0.1%, 0603, 1/6W	47.0 – 360K	±25 (P)	100	1.6	0.8	0.3	0.4	RGH16P(Value)CT-ND	4.32	13.05	43.14	RGH16P(Value)TR-ND	5,000	61.67/M	RGH1608-2C-P-xxx-B
0.1%, 0805, 1/4W	47 – 470K	±25 (P)	125	2.0	1.25	0.4	0.4	RGH20P(Value)BCT-ND	5.17	15.66	51.76	RGH20P(Value)BTR-ND	5,000	73.68/M	RGH2012-2E-P-xxx-B

\$ For complete part number, substitute corresponding value from the Resistance Value Chart.

0.05% and 0.5% SMD Resistors — Digi-Key® Assortment Kits

Digi-Key® 0.05%, 0603, 1/16W, RG Series, SMD Resistor Kits

RG1608NW-1-KIT-ND	10 each of values 47Ω – 750Ω	140.90
RG1608NW-2-KIT-ND	10 each of values 820Ω – 13.0KΩ	140.90
RG1608NW-3-KIT-ND	10 each of values 15.0KΩ – 270KΩ	140.90

RG2012NW-2-KIT-ND	10 each of values 1.0KΩ – 20.0KΩ	160.12
RG2012NW-3-KIT-ND	10 each of values 22.0KΩ – 470KΩ	160.12

Digi-Key® 0.5%, 0402, 1/16W, RG Series, SMD Resistor Kits

Digi-Key® 0.05%, 0805, 1/10W, RG Series, SMD Resistor Kits

RG2012NW-1-KIT-ND	10 each of values 47.0Ω – 910Ω	160.12
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SSM1005PD-KIT-ND	60 each of all 97 values	166.32
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▲ Please see the Digi-Key website for a complete list of the values included in the kits.

CPA Series High Power Thin Film Resistors
 2512 Package — 16 Watt



These power resistors are designed to tolerate high current and establish a low thermal resistance interface with the circuit board. A lower thermal resistance more efficiently sinks heat to the board enabling a larger effective area for heat dissipation. As a result, the CPA Series exhibits much lower surface temperatures when compared to standard chip resistors of the same size with the same applied power.

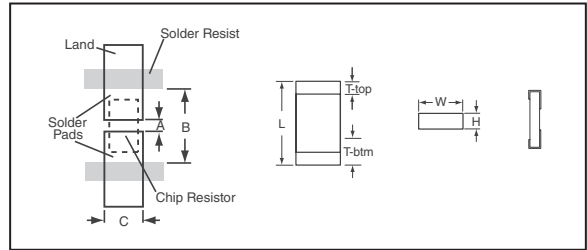
1%, 2512 Series, ±50, 16W — Resistor Values

3.3	5.6	10.0	18.0
3.9	6.8	12.0	
4.7	8.2	15.0	

1%, 2512 Series, ±25, 16W — Resistor Values

22.0	39.0	68.0	120
27.0	47.0	82.0	
33.0	56.0	100	

Note: Dependent on effective thermal conductivity/resistance of board construction/land design and size of board - greater power capability for board/land with lower thermal resistance. For relatively high thermal resistance mountings, the power resistors are capable of generating sufficient heat to reflow solder bonds without device damage.



Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm)							Digi-Key Part No.\$	Cut Tape Pricing			Digi-Key Part No.\$	Tape and Reel Pricing 1,000	Susumu Part No.	
			L	W	H	T-top	T-btm	A	B		C	10	50				200
1%, 2512, 16W	3.3 – 18.0	±50	6.3	3.2	0.7	0.9	2.0	1.6	7.7	3.5	CPA25Q(Value)CT-ND	23.02	102.71	368.33	CPA25Q(Value)TR-ND	920.92	CPA2512QxxxxFS-T10
1%, 2512, 16W	22.0 – 120	±25	6.3	3.2	0.7	0.9	2.0	1.6	7.7	3.5	CPA25E(Value)CT-ND	23.02	102.71	368.33	CPA25E(Value)TR-ND	920.92	CPA2512ExxxxFS-T10

\$ For complete part number, substitute corresponding value from the Resistance Value Chart.

KRL Series Foil Type Low Resistance Value Chip Resistors
 Face Down Mounting — 1, 3 and 5 Watt



High Operating Temperature Range and Thermal EMF. Face down mounting for accurate sensing performance, 1% resistance tolerance, 50ppm TCR.

2%, 2512 Series, 1W — Resistor Values

.005	.006	.007	.008	.009
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1%, 3015 Series, 3W — Resistor Values

.003	.005	.007	.009	.012	.018	.027	.039	.050
.004	.006	.008	.010	.015	.022	.033	.047	

1%, 2512 Series, 1W — Resistor Values

.010	.015	.022	.033	.047	.056	.082
.012	.018	.027	.039	.050	.068	.100

5%, 4320 Series, 5W — Resistor Values

.001

5%, 3015 Series, 3W — Resistor Values

.001

2%, 4320 Series, 5W — Resistor Values

.002

2%, 3015 Series, 3W — Resistor Values

.002

1%, 4320 Series, 5W — Resistor Values

.003	.005	.007	.009	.012	.018	.027	.039	.050
.004	.006	.008	.010	.015	.022	.033	.047	

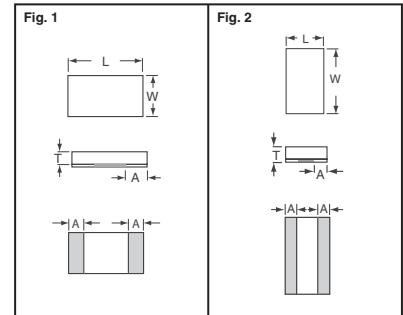


Fig.	Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 1,000	Susumu Part No.
				L	W	A	T		10	50	200			
1	2%, 2512, 1W	.005 – .007	±100	6.3	3.1	1.9	0.5	KRL32C(Value)CT-ND\$	6.49	24.52	85.81	KRL32C(Value)TR-ND\$	168.17	KRL3264-C-Rxxx-G-T1
	2%, 2512, 1W	.008 – .009	±100	6.3	3.1	1.0	0.5	KRL32C(Value)CT-ND\$	6.49	24.52	85.81	KRL32C(Value)TR-ND\$	168.17	KRL3264-C-Rxxx-G-T1
	1%, 2512, 1W	.010 – .100	±50	6.3	3.1	1.0	0.5	KRL32C(Value)CT-ND\$	6.49	24.52	85.81	KRL32C(Value)TR-ND\$	168.17	KRL3264-C-Rxxx-F-T1
2	5%, 3015, 3W	.001	±150	7.6	3.8	1.35	0.5	KRL76C.001CT-ND	13.08	56.30	199.78	KRL76C.001TR-ND	482.88	KRL7638-C-R001-J-T1
	2%, 3015, 3W	.002	±100	7.6	3.8	0.6	0.5	KRL76C.002CT-ND	13.08	56.30	199.78	KRL76C.002TR-ND	482.88	KRL7638-C-R002-G-T1
	1%, 3015, 3W	.003 – .050	±50	7.6	3.8	0.6	0.5	KRL76C(Value)CT-ND\$	13.08	56.30	199.78	KRL76C(Value)TR-ND\$	482.88	KRL7638-C-Rxxx-F-T1
	5%, 4320, 5W	.001	±150	11	5	1.8	0.5	KRL11C.001CT-ND	23.61	105.34	377.77	KRL11C.001TR-ND	944.14	KRL11050-C-R001-J-T1
	2%, 4320, 5W	.002	±100	11	5	0.8	0.5	KRL11C.002CT-ND	23.61	105.34	377.77	KRL11C.002TR-ND	944.14	KRL11050-C-R002-G-T1
	1%, 4320, 5W	.003 – .050	±50	11	5	0.8	0.5	KRL11C(Value)CT-ND\$	23.61	105.34	377.77	KRL11C(Value)TR-ND\$	944.14	KRL11050-C-Rxxx-F-T1

\$ For complete part number, substitute corresponding value from the Resistance Value Chart.

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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