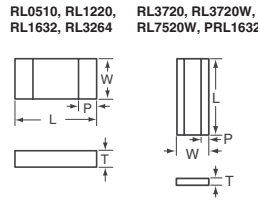
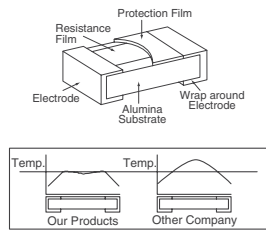


THIN FILM TECHNOLOGY **SSM SUSUMU CO., LTD**

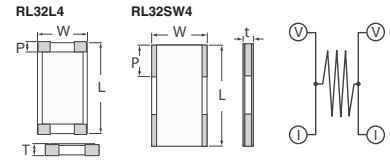
Thin Film Low Resistance Chip Resistors Series
0402/0805/0815/0830/1206/2512 SMD, 1%, 2% and 5% – 1/8, 1/4, 1/2, 1 and 2 Watt

Susumu's Thin Film Low Resistance series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor.

A specially designed construction assures small dimensions and repressed surface temperature increase due to heat radiation and thermal conduction. This construction also minimizes the thermal effects on peripheral areas. Patent 2963671.



4 Terminal Type



1%, 0402 Series, 1/8 Watt — RL0510S Series Resistor Values

.15	.22	1.0	1.5	2.2	3.3	4.7
-----	-----	-----	-----	-----	-----	-----

2%, 0402 Series, 1/8 Watt — RL0510S Series Resistor Values

.15	.22	1.0	2.2
-----	-----	-----	-----

1%, 0805 Series, 1/4 Watt — RL1220S Series Resistor Values

.10	.16	.27	.43	.62	1.00	1.6	2.70	4.3	6.8
.11	.18	.30	.47	.68	1.1	1.80	3.00	4.70	7.5
.12	.20	.33	.50	.75	1.2	2.0	3.30	5.1	8.2
.13	.22	.36	.51	.82	1.30	2.20	3.6	5.6	9.1
.15	.24	.39	.56	.91	1.50	2.4	3.9	6.2	10.0

2%, 0805 Series, 1/4 Watt — RL1220T/S Series Resistor Values

.022	.05	.082	.18	.30	.68	1.50	3.30
.033	.056	.10	.20	.33	.82	1.80	4.70
.039	.068	.12	.22	.36	1.00	2.20	10.0
.047	.075	.15	.24	.47	1.30	2.70	

5%, 0805 Series, 1/4 Watt — RL1220T Series Resistor Values

.010	.013	.018	.024	.030	.039	.05	.062	.082
.011	.015	.020	.025	.033	.043	.051	.068	.091
.012	.016	.022	.027	.036	.047	.056	.075	

1%, 0815 Series, 1/2 Watt — RL3720T/S Series Resistor Values

.018	.022	.047	.10
------	------	------	-----

1%, 0815 Series, 1 Watt — RL3720WT/S Series Resistor Values

.004	.012	.016	.03	.047	.10	.33	.56
.008	.013	.02	.033	.05	.15	.43	.68
.01	.015	.022	.036	.068	.22	.47	1.00

2%, 0815 Series, 1/2 Watt — RL3720T/S Series Resistor Values

.018	.02	.022	.04	.047	.10
------	-----	------	-----	------	-----

2%, 0815 Series, 1 Watt — RL3720WT Series Resistor Values

.01	.015	.022	.030	.047
.011	.018	.025	.033	.05
.012	.02	.028	.04	.068

5%, 0815 Series, 1 Watt — RL3720WT Series Resistor Values

.004	.005	.008
------	------	------

1%, 0830 Series, 2 Watt — RL7520WT/S Series Resistor Values

.01	.02	.050	.15	.33
.015	.047	.10	.22	.47

2%, 0830 Series, 2 Watt — RL7520WT Series Resistor Values

.009	.012	.02	.033	.047	.068
.01	.015	.022	.039	.050	

5%, 0830 Series, 2 Watt — RL7520WT Series Resistor Values

.001	.002	.003	.004	.005	.006	.009
------	------	------	------	------	------	------

1%, 1206 Series, 1/2 Watt — RL1632T/S/R Series Resistor Values

.027	.051	.10	.20	.39	.75	1.5	3.0
.030	.056	.11	.22	.43	.82	1.6	3.3
.033	.062	.12	.24	.47	.91	1.8	3.6
.036	.068	.13	.27	.51	1.0	2.0	3.9
.039	.075	.15	.30	.56	1.1	2.2	4.3
.043	.082	.16	.33	.62	1.2	2.4	4.7
.047	.091	.18	.36	.68	1.3	2.7	

2%, 1206 Series, 1/2 Watt — RL1632T Series Resistor Values

.010	.012	.015	.018	.022
.011	.013	.016	.020	.024

1%, 2512 Series, 1 Watt — RL3264T/S/R Series Resistor Values

.027	.047	.082	.15	.27	.47
.033	.056	.10	.18	.33	
.039	.068	.12	.22	.39	

2%, 2512 Series, 1 Watt — RL3264T Series Resistor Values

.010	.012	.015	.018	.022
------	------	------	------	------

1%, 2512 Series, 2 Watt — RL3264SW4 Series Resistor Values

.001	.003	.005	.007	.009
.002	.004	.006	.008	.010

1%, 2512 Series, 1 Watt — RL3264L4 Series Resistor Values

.003	.007	.015	.033	.056	.150	.390
.004	.008	.018	.039	.068	.180	.500
.005	.010	.022	.047	.082	.220	
.006	.012	.027	.050	.100	.270	

1%, 1206 Series, 1 Watt — PRL1632 Series Resistor Values

.005	.011	.020	.036	.056	.100
.006	.012	.022	.039	.062	
.007	.013	.024	.043	.068	
.008	.015	.027	.047	.075	
.009	.016	.030	.050	.082	
.010	.018	.033	.051	.091	



Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm)				Digi-Key Part No. \$	Cut Tape Pricing			Digi-Key Part No. \$	Tape and Reel		Susumu Part No.
			L	W	P	T		10	50	200		Qty.	Pricing	
1%, 0402, 1/8W	.15 - 4.7	0-200	1.00	0.50	0.20	0.35	RL05S(Value)FCT-ND	5.64	15.17	34.85	RL05S(Value)FTR-ND	10,000	65.52/M	RL0510S-xxx-F
2%, 0402, 1/8W	.15 - 2.2	0-200	1.00	0.50	0.20	0.35	RL05S(Value)GCT-ND	5.34	14.37	33.02	RL05S(Value)GTR-ND	10,000	62.16/M	RL0510S-xxx-G
1%, 0805, 1/4W	.10 - 10.0	0-200	2.00	1.25	0.40	0.40	RL12S(Value)FCT-ND	3.03	8.16	18.74	RL12S(Value)FTR-ND	5,000	37.49/M	RL1220S-xxx-F
2%, 0805, 1/4W	.022 - .082	0-350	2.00	1.25	0.40	0.40	RL12T(Value)GCT-ND	5.05	13.60	31.24	RL12T(Value)GTR-ND	5,000	62.48/M	RL1220T-xxx-G
5%, 0805, 1/4W	.10 - 10.0	0-200	2.00	1.25	0.40	0.40	RL12S(Value)GCT-ND	3.03	8.16	18.74	RL12S(Value)GTR-ND	5,000	37.49/M	RL1220S-xxx-G
1%, 0815, 1/2W	.018 - .047	0-350	3.75	2.00	0.40	0.40	RL12T(Value)JCT-ND	3.75	10.10	23.21	RL12T(Value)JTR-ND	5,000	46.41/M	RL1220T-xxx-J
2%, 0815, 1W	.004 - .068	0-350	3.75	2.00	0.40	0.40	RL37T(Value)FCT-ND	13.64	36.72	84.35	RL37T(Value)FTR-ND	4,000	158.77/M	RL3720T-xxx-F
5%, 0815, 1/2W	.018 - .047	0-350	3.75	2.00	0.40	0.40	RL37S.10FCT-ND	13.64	36.72	84.35	RL37S.10FTR-ND	4,000	158.77/M	RL3720S-xxx-F
2%, 0815, 1W	.010 - .040	0-200	3.75	2.00	0.40	0.40	RL37WT(Value)FCT-ND	18.19	48.95	112.46	RL37WT(Value)FTR-ND	4,000	211.68/M	RL3720WT-xxx-F
5%, 0815, 1W	.010 - .040	0-200	3.75	2.00	0.40	0.40	RL37WS(Value)FCT-ND	18.19	48.95	112.46	RL37WS(Value)FTR-ND	4,000	211.68/M	RL3720WS-xxx-F
2%, 0815, 1/2W	.01 - .020	0-350	3.75	2.00	0.40	0.40	RL37T(Value)GCT-ND	12.42	33.41	76.76	RL37T(Value)GTR-ND	4,000	144.48/M	RL3720T-xxx-G
5%, 0815, 1W	.01 - .068	0-350	3.75	2.00	0.40	0.40	RL37S.10GCT-ND	12.42	33.41	76.76	RL37S.10GTR-ND	4,000	144.00/M	RL3720S-xxx-G
2%, 0815, 1W	.004 - .008	0-350	3.75	2.00	0.40	0.40	RL37WT(Value)GCT-ND	16.45	45.07	103.53	RL37WT(Value)GTR-ND	4,000	194.88/M	RL3720WT-xxx-G
5%, 0815, 1W	.004 - .008	0-350	3.75	2.00	0.40	0.40	RL37WT(Value)JCT-ND	20.21	54.39	124.95	RL37WT(Value)JTR-ND	4,000	235.20/M	RL3720WT-xxx-J
1%, 0830, 2W	.01 - .050	0-350	7.50	2.00	0.40	0.40	RL75WT(Value)FCT-ND	19.71	53.03	121.83	RL75WT(Value)FTR-ND	4,000	229.33/M	RL7520WT-xxx-F
2%, 0830, 2W	.009 - .068	0-350	7.50	2.00	0.40	0.40	RL75WS(Value)FCT-ND	19.71	53.03	121.83	RL75WS(Value)FTR-ND	4,000	229.33/M	RL7520WS-xxx-F
5%, 0830, 2W	.001 - .009	0-350	7.50	2.00	0.40	0.40	RL75WT(Value)GCT-ND	18.91	50.89	116.92	RL75WT(Value)GTR-ND	4,000	220.08/M	RL7520WT-xxx-G
2%, 0830, 2W	.009 - .068	0-350	7.50	2.00	0.40	0.40	RL75WT(Value)JCT-ND	21.66	58.28	133.88	RL75WT(Value)JTR-ND	4,000	252.00/M	RL7520WT-xxx-J
1%, 1206, 1/2W	.027 - .030	0-200	3.20	1.60	1.00	0.50	RL16T(Value)FCT-ND	11.55	31.08	71.40	RL16T(Value)FTR-ND	5,000	142.80/M	RL1632T-xxx-F
2%, 1206, 1/2W	.033 - .051	0-350	3.20	1.60	1.00	0.50	RL16S(Value)FCT-ND	11.55	31.08	71.40	RL16S(Value)FTR-ND	5,000	142.80/M	RL1632S-xxx-F
5%, 1206, 1/2W	.056 - 4.7	±100	3.20	1.60	1.00	0.50	RL16R(Value)FCT-ND	11.55	31.08	71.40	RL16R(Value)FTR-ND	5,000	142.80/M	RL1632R-xxx-F
2%, 1206, 1/2W	.010 - .024	0-350	3.20	1.60	1.00	0.50	RL16T(Value)GCT-ND	11.55	31.08	71.40	RL16T(Value)GTR-ND	5,000	142.80/M	RL1632T-xxx-G
1%, 2512, 1W	.027	0-350	6.40	3.20	2.00	0.50	RL32T.027FCT-ND	28.88	77.70	178.50	RL32T.027FTR-ND	5,000	357.00/M	RL3264T-xxx-F
2%, 2512, 1W	.033 - .047	0-200	6.40	3.20	2.00	0.50	RL32S(Value)FCT-ND	28.88	77.70	178.50	RL32S(Value)FTR-ND	5,000	357.00/M	RL3264S-xxx-F
5%, 2512, 1W	.056 - .47	±100	6.40	3.20	2.00	0.50	RL32R(Value)FCT-ND	28.88	77.70	178.50	RL32R(Value)FTR-ND	5,000	357.00/M	RL3264R-xxx-F
1%, 2512, 1W	.010 - .022	0-350	6.40	3.20	2.00	0.50	RL32T(Value)GCT-ND	28.88	77.70	178.50	RL32T(Value)GTR-ND	5,000	357.00/M	RL3264T-xxx-G
2%, 2512, 1W	.001	±300	6.40	3.20	2.00	0.50	RL32SW4.001FCT-ND	46.62	133.88	365.40	RL32SW4.001FTR-ND	5,000	1071.00/M	RL3264SW4-001M-F-T5
5%, 2512, 1W	.002 - .004	±200	6.40	3.20	2.00	0.50	RL32SW4(Value)FCT-ND	46.62	133.88	365.40	RL32SW4(Value)FTR-ND	5,000	1071.00/M	RL3264SW4-xxxM-F-T5
2%, 2512, 1W	.005 - .010	±100	6.40	3.20	2.00	0.50	RL32SW4(Value)GCT-ND	46.62	133.88	365.40	RL32SW4(Value)GTR-ND	5,000	1071.00/M	RL3264SW4-xxxM-F-T5
1%, 2512, 1W	.003 - .005	±100	6.40	3.20	0.60	0.50	RL32L4(Value)FCT-ND	38.85	111.56	304.50	RL32L4(Value)FTR-ND	5,000	893.00/M	RL3264L4-Rxxx-F
2%, 2512, 1W	.006 - .500	±50	6.40	3.20	0.60	0.50	RL32L4(Value)GCT-ND	38.85	111.56	304.50	RL32L4(Value)GTR-ND	5,000	893.00/M	RL3264L4-Rxxx-G
1%, 1206, 1W	.005 - .009	0-350	3.20	1.60	0.45	0.50	PRL1632(Value)FCT-ND	9.21	26.58	63.79	PRL1632(Value)FTR-ND	1,000	227.00	PRL1632-xxx-F-T1

§ For complete part number, substitute corresponding value from the Resistance Value Chart ◆ RoHS Compliant

1%, 2 and 5% SMD Resistors — Digi-Key® Assortment Kits

Digi-Key® 1%, 0805, 1/4W, RL Series SMD Chip Resistor Kit	
RL1220SF-1-KIT-ND ◆ 10 each of values .10Ω - 10.0Ω	19.95
Digi-Key® 2%, 0805, 1/4W, RL Series SMD Chip Resistor Kit	
RL1220SG-1-KIT-ND ◆ 10 each of values .022Ω - 10.0Ω	15.95
Digi-Key® 1, 2 and 5% 0805, 1/4W, RL Series SMD Thin Film Resistor Kit	
SSM1220-KIT-ND 40 each of 31 values ◆◆	114.61

Digi-Key® 1%, 0815, 1W, RL Series SMD Thin Film Resistor Kit	
SSM3720W-KIT-ND 30 each of 20 values ◆◆	95.18
Digi-Key® 1, 2 and 5%, 0830, 2W, RL Series SMD Thin Film Resistor Kit	
SSM7520W-KIT-ND 30 each of 16 values ◆◆	134.03

▲ Please see Digi-Key website for a complete list of values included in the kits. ◆ RoHS Compliant

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.

All prices are in U.S. dollars (www.digikey.com). — Toll-Free: 00801-85-4023

1770 (TW092-10) Fax: (852) 3104 0686 — Taiwan dollar available by credit card at www.digikey.tw.