

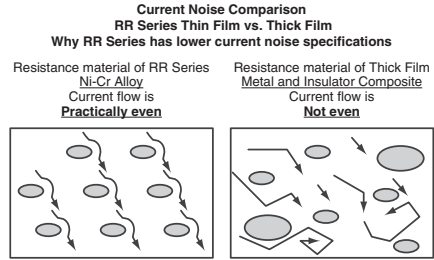
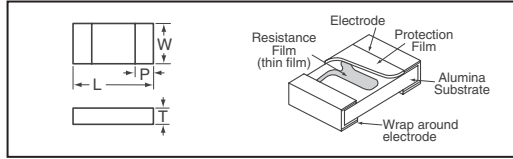


0201 / 0402 / 0603 / 0805 SMD .1% and .5% Thin Film Chip Resistors – High Precision RR Series - 1/10, 1/16, 1/20 Watt

Susumu has been manufacturing thin film resistors since 1986 and is the primary thin film supplier in the world. Susumu's Number One status in thin film resistors can be attributed to the sales of the RR Series thin film chip resistors.

The RR Series offers excellent TCR tolerances, Linearity specifications and low current noise.

These specifications contribute to circuit simplification and cost savings, as they eliminate the need for trimmer pots in the circuit for adjustment.



.1%, 1/16 Watt - Series 0603 — Resistor Values

9.1K	16.0K	47.5K
11.0K	30.9K	127K

.1%, 1/10 Watt - Series 0805 — Resistor Values

1.69K	3.09K	24.0K
2.94K	7.15K	75.0K

.5%, 1/20 Watt - Series 0201 — Resistor Values

47	100	130	470	3.3K	4.3K	5.6K	8.2K
82	120	220	560	3.9K	4.7K	6.8K	

.5%, 1/16 Watt - Series 0402 — Resistor Values

10	39	75	160	270	430	750	1.3K	2.1K	3.16K	4.53K	5.76K	8.45K	12.1K	18.0K	24.9K	36.5K	56.0K	82.0K	
15	47	82	169	287	470	820	1.5K	2.2K	3.3K	4.7K	6.04K	9.09K	12.4K	18.2K	25.5K	39.0K	56.2K	86.6K	
20	49.9	100	180	300	499	825	1.6K	2.32K	3.32K	4.99K	6.2K	9.1K	13.0K	18.7K	27.0K	40.2K	57.6K	90.9K	
22	51	110	200	330	510	910	1.62K	2.4K	3.6K	5.1K	6.49K	10.0K	13.7K	20.0K	28.7K	43.0K	59K	100K	
24	56	120	220	332	560	1.0K	1.8K	2.49K	3.74K	5.36K	6.8K	10.5K	14.7K	21K	30.0K	45.3K	62.0K		
27	56.2	130	240	360	620	1.1K	1.87K	2.55K	3.9K	5.49K	7.5K	10.7K	15.0K	22.0K	33.0K	47.0K	64.9K		
30	62	137	249	390	649	1.2K	1.96K	2.7K	4.02K	5.6K	8.06K	11.3K	15.4K	23.2K	33.2K	49.9K	68.0K		
33	68	150	255	402	680	1.21K	2.0K	3.0K	4.3K	5.62K	8.2K	12.0K	16.0K	24.0K	36.0K	51.0K	75.0K		

.5%, 1/16 Watt - Series 0603 — Resistor Values

10	24	47	100	215	357	590	976	1.5K	2.32K	3.3K	4.64K	6.2K	8.87K	12.7K	18.2K	27.0K	37.4K	56.2K	91.0K	180K	332K
11	24.9	47.5	110	220	360	604	1.0K	1.54K	2.37K	3.32K	4.7K	6.34K	9.09K	13.0K	18.7K	27.4K	39.0K	59.0K	100K	200K	357K
11.8	27	49.9	120	221	365	619	1.02K	1.6K	2.4K	3.4K	4.75K	6.49K	9.1K	13.3K	19.1K	28.0K	40.2K	60.4K	102K	210K	360K
12	30	51	121	226	390	620	1.07K	1.62K	2.43K	3.48K	4.87K	6.65K	9.31K	13.7K	19.6K	28.7K	43.0K	61.9K	107K	220K	
12.1	33	51.1	124	232	392	634	1.1K	1.69K	2.49K	3.57K	4.99K	6.8K	9.53K	14.0K	20.0K	29.4K	43.2K	62.0K	110K	221K	
12.4	33.2	54.9	130	240	402	649	1.13K	1.78K	2.55K	3.6K	5.1K	6.81K	9.76K	14.3K	20.5K	30.0K	44.2K	66.5K	113K	240K	
13	34	56	133	267	422	680	1.15K	1.8K	2.61K	3.65K	5.11K	6.98K	10.0K	14.7K	21.0K	30.1K	47.0K	68.0K	118K	243K	
15	35.7	56.2	147	270	430	681	1.18K	1.82K	2.67K	3.74K	5.23K	7.15K	10.2K	15.0K	21.5K	30.9K	47.5K	68.1K	120K	249K	
16	36	60.4	150	274	432	698	1.2K	1.87K	2.7K	3.9K	5.36K	7.32K	10.5K	15.8K	22.0K	31.6K	48.7K	69.8K	124K	255K	
16.9	37.4	62	154	280	464	715	1.21K	1.96K	2.74K	3.92K	5.49K	7.5K	10.7K	16.0K	22.1K	32.4K	49.9K	73.2K	130K	270K	
18	38.3	68	160	300	470	750	1.24K	2.0K	2.80K	4.02K	5.6K	7.87K	11.0K	16.2K	22.6K	33.0K	51.0K	75.0K	140K	284K	
20	39	68.1	165	301	475	806	1.27K	2.1K	2.87K	4.12K	5.62K	8.06K	11.3K	16.5K	23.2K	33.2K	51.1K	78.7K	147K	300K	
20.5	39.2	75	180	330	499	820	1.3K	2.15K	3.0K	4.22K	5.76K	8.2K	11.5K	16.9K	24.0K	34.0K	52.3K	80.6K	150K	301K	
21.5	40.2	82	182	332	510	825	1.37K	2.2K	3.01K	4.2K	5.9K	8.25K	12.0K	17.4K	24.3K	34.8K	53.6K	82.0K	160K	309K	
22	41.2	82.5	200	340	560	845	1.4K	2.21K	3.09K	4.42K	6.04K	8.45K	12.1K	17.8K	24.9K	36.0K	54.9K	84.5K	165K	324K	
22.1	43	91	210	348	562	910	1.47K	2.26K	3.16K	4.53K	6.19K	8.66K	12.4K	18.0K	26.1K	36.5K	56.0K	90.9K	178K	330K	

.5%, 1/10 Watt - Series 0805 — Resistor Values

10	20.5	36	75	143	249	470	976	1.65K	2.4K	3.6K	5.1K	7.87K	12.0K	17.4K	27.4K	41.2K	62.0K	100K	200K	374K	820K
11	21.5	39	80.6	147	255	475	1.0K	1.69K	2.43K	3.65K	5.11K	8.06K	12.1K	18.0K	28.7K	43.0K	64.9K	102K	205K	390K	887K
11.5	22	40.2	82	150	267	499	1.1K	1.78K	2.49K	3.74K	5.36K	8.2K	12.4K	18.7K	30.0K	44.2K	66.5K	105K	210K	402K	910K
12	22.6	41.2	82.5	160	270	510	1.13K	1.8K	2.55K	3.83K	5.49K	8.25K	12.7K	19.1K	30.1K	45.3K	68.0K	110K	220K	412K	931K
12.4	24	43	86.6	162	280	523	1.15K	1.82K	2.61K	3.9K	5.6K	8.45K	13.0K	19.6K	30.9K	47.0K	68.1K	115K	226K	430K	1.0M
13	24.9	47	88.7	165	287	549	1.18K	1.87K	2.7K	3.92K	5.62K	8.87K	13.3K	20.0K	31.6K	47.5K	71.5K	118K	232K	470K	
13.3	25.5	47.5	91	174	300	560	1.2K	1.91K	2.8K	4.02K	5.76K	9.09K	13.7K	21.0K	32.4K	48.7K	73.2K	120K	240K	475K	
14.3	27	49.9	100	178	309	576	1.21K	1.96K	2.94K	4.12K	5.9K	9.1K	14.0K	21.5K	33.0K	49.9K	75.0K	121K	249K	499K	
14.7	27.4	51	107	180	316	590	1.27K	2.0K	3.0K	4.3K	6.04K	9.53K	14.3K	22.1K	33.2K	51.0K	80.6K	130K	255K	510K	
15	29.4	54.9	110	182	330	604	1.3K	2.05K	3.01K	4.32K	6.19K	9.76K	14.7K	23.2K	34.8K	51.1K	82.0K	140K	270K	549K	
16	30	56	120	200	332	620	1.33K	2.1K	3.09K	4.42K	6.2K	10.0K	15.0K	23.7K	35.7K	53.6K	82.5K	143K	280K	560K	
16.5	30.1	56.2	121	205	360	649	1.37K	2.15K	3.16K	4.53K	6.65K	10.2K	15.4K	24.0K	36.0K	54.9K	84.5K	150K	300K	604K	
17.4	30.9	60.4	124	215	365	680	1.40K	2.2K	3.24K	4.64K	6.8K	10.5K	15.8K	24.3K	36.5K	56.0K	86.6K	160K	301K	620K	
17.8	32.4	61.9	127	220	390	681	1.5K	2.21K	3.3K	4.7K	6.81K	11.0K	16.0K	24.9K	37.4K	56.2K	88.7K	178K	330K	665K	
18	33	62	130	226	392	820	1.54K	2.26K	3.32K	4.75K	6.98K	11.3K	16.2K	25.5K	39.0K	57.6K	90.9K	180K	357K	680K	
19.6	34.8	68	133	232	412	887	1.58K	2.32K	3.4K	4.8K	7.15K	11.5K	16.5K	26.1K	39.2K	59.0K	91.0K	187K	360K	715K	
20	35.7	69.8	140	240	430	910	1.6K	2.37K	3.48K	4.99K	7.5K	11.8K	16.9K	27.0K	40.2K	60.4K	95.3K	191K	365K	750K	

◆ RoHS Compliant ‡ Not available in assortment kits

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		Susumu Part No.
				L	W	P	T		10	50	200		Qty.	Pricing	
.1%, 0603, 1/16W	9.1K - 127K	±25	75	1.60	0.80	0.30	0.40	RR08P(Value)BCT-ND	3.12	9.45	31.22	—	—	—	RR0816P-xxx-B
.1%, 0805, 1/10W	1.69K - 86.6K	±25	100	2.00	1.25	0.40	0.40	RR12P(Value)BCT-ND	3.12	9.45	31.22	—	—	—	RR1220P-xxx-B
.5%, 0201, 1/20W	47 - 8.2K	±25	15	0.06	0.30	0.12	0.23	RR03P(Value)DCT-ND	2.45	7.15	22.06	RR03P(Value)DTR-ND	5,000	24.83M	RR0306P-xxx-D
.5%, 0402, 1/16W	10 - 82	±100	25	1.00	0.50	0.20	0.35	RR05R(Value)DCT-ND	.90	2.46	7.49	RR05R(Value)DTR-ND	10,000	7.21M	RR0510R-xxx-D
	100 - 100K	±25	25	1.00	0.50	0.20	0.35	RR05P(Value)DCT-ND	.90	2.46	7.49	RR05P(Value)DTR-ND	10,000	7.21M	RR0510P-xxxx-D
.5%, 0603, 1/16W	10 - 91	±50	75	1.60	0.80	0.30	0.40	RR08Q(Value)DCT-ND	1.19	3.24	9.85	RR08Q(Value)DTR-ND	5,000	10.41M	RR0816Q-xxx-D-xxx
	100 - 360K	±25	75	1.60	0.80	0.30	0.40	RR08P(Value)DCT-ND	1.19	3.24	9.85	RR08P(Value)DTR-ND	5,000	10.41M	RR0816P-xxxx-D-xxx
.5%, 0805, 1/10W	10 - 91	±50	100	2.00	1.25	0.40	0.40	RR12Q(Value)DCT-ND	1.19	3.24	9.85	RR12Q(Value)DTR-ND	5,000	10.41M	RR1220Q-xxx-D-xxx
	100 - 1.0M	±25	100	2.00	1.25	0.40	0.40	RR12P(Value)DCT-ND	1.19	3.24	9.85	RR12P(Value)DTR-ND	5,000	10.41M	RR1220P-xxxx-D-xxx

† For complete part number, substitute corresponding value from the Resistor Value Chart.

◆ RoHS Compliant

.5% SMD Resistors Digi-Key® Assortment Kits

Digi-Key® .5%, 0201, 1/20W, RR Series, SMD Resistor Kits

RR0306PD-1-KIT-ND 10 each of values 47Ω - 8.2KΩ 7.97

Digi-Key® .5%, 0603, 1/16W, RR Series, SMD Resistor Kits

RR0816QD-1-KIT-ND 10 each of values 10Ω - 91.0Ω 11.17

RR0816PD-1-KIT-ND 10 each of values 100Ω - 806Ω 12.77

RR0816PD-2-KIT-ND 10 each of values 820Ω - 4.75KΩ 12.77

RR0816PD-3-KIT-ND 10 each of values 4.87KΩ - 18.0KΩ 12.77

RR0816PD-4-KIT-ND 10 each of values 18.2KΩ - 68.1KΩ 12.77

RR0816PD-5-KIT-ND 10 each of values 69.8KΩ - 360KΩ 10.37

SSM0816PD-KIT-ND 60 each of 125 values 166.32

Digi-Key® .5%, 0805, 1/10W, RR Series, SMD Resistor Kits

RR1220QD-1-KIT-ND 10 each of values 10Ω - 91.0Ω 10.37

RR1220PD-1-KIT-ND 10 each of values 10