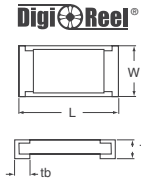


**0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512**  
**Surface Mount 1% and 5% Thick Film Chip Resistors**

**RoHS Compliant Parts Available**  
 (Parts other than indicated may be available as RoHS compliant)



Size Code: Resistance Range (Ω):	Temperature Coefficient (ppm/°C)															
	0201		0402		0603		0805		1206		1210		2010		2512	
0.47 ≤ R < .091	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
.15 ≤ R < 10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1.0 ≤ R < 2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1.0 ≤ R < 10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1.0 ≤ R ≤ 10M	—	±250	—	—	±500/±250	—	—	±400	±250	—	±250	—	±200	—	—	—
2.2 ≤ R < 10	—	—	—	—	—	—	—	±500	—	±500	—	±500	—	—	—	—
10 ≤ R ≤ 2.2M	—	—	—	±100	—	—	±100	—	±100	—	±100	—	±100	—	—	—
10 ≤ R ≤ 10M	±250	—	—	—	±200	—	—	±200	—	±200	—	±200	—	—	—	—

**MCR006 1%, 1/20 Watt — 0201 Series Resistor Values – RoHS Compliant**

10	22	33	51	82	165	510	976	1.5K	2.7K	3.9K	5.1K	7.5K	11.5K	22K	30K	44.2K	56K	91K	150K	240K	360K	510K	1.2M
12	24	39	56	100	200	680	1.0K	1.8K	2.87K	4.3K	5.6K	8.2K	12K	24K	30.1K	45.3K	69K	100K	162K	255K	402K	600K	1.5M
15	24.3	43	68	110	300	750	1.1K	2.0K	2.94K	4.7K	5.92K	8.25K	12.1K	24.9K	33.2K	47K	69.8K	120K	180K	280K	430K	750K	2.0M
18	25.5	47	73.2	130	430	820	1.2K	2.1K	3.0K	4.75K	6.2K	10K	15K	27.4K	40.2K	47.5K	80.6K	121K	220K	300K	470K	910K	2.2M
20	27	49.9	75	150	470	910	1.3K	2.2K	3.3K	4.99K	6.8K	11.3K	18K	29.4K	43.2K	51K	82.5K	140K	232K	324K	487K	1.0M	10M

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 15,000	RoHM Part No.
				W	L	T	tb		10	50	200			
1%, 0201, 1/20 Watt	10 – 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)ABCT-ND	.86	2.31	5.31	RHM(Value)ABTR-ND	8.72/M	MCR006YZPFxxxx

**MCR006 5%, 1/20 Watt — 0201 Series Resistor Values – RoHS Compliant**

0.0	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K	150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M
5.6	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K	160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M
10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M
11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	11M
12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	12M
13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	13M

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 15,000	RoHM Part No.
				W	L	T	tb		10	50	200			
5%, 0201, 1/20 Watt	0.0 – 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)AGCT-ND	.74	2.00	4.60	RHM(Value)AGTR-ND	6.54/M	MCR006YZPJxxxx

**MCR01 1%, 1/16 Watt — 0402 Series Resistor Values**

1.00	33.0	68.0	180	430	620	1.21K	2.40K	4.30K	6.49K	9.10K	12.0K	17.4K	24.9K	35.7K	45.3K	53.6K	78.7K	95.3K	127K	226K	332K	560K	910K
4.70	36.0	82.0	220	464	680	1.50K	2.70K	4.64K	6.80K	9.53K	12.1K	18.0K	26.1K	36.0K	46.4K	56.0K	80.6K	97.6K	150K	240K	360K	562K	910K
10.0	39.0	75.0	280	470	715	1.80K	3.01K	5.10K	7.50K	10.0K	13.0K	19.1K	27.0K	39.0K	47.0K	60.4K	82.0K	100K	180K	249K	430K	620K	910K
22.0	49.0	100	300	490	910	1.82K	3.30K	5.36K	7.87K	10.7K	14.0K	20.0K	28.0K	39.2K	47.5K	61.9K	82.5K	110K	187K	261K	442K	649K	910K
24.9	51.0	120	301	510	1.00K	1.96K	3.74K	5.49K	8.06K	11.0K	15.0K	21.0K	30.0K	40.2K	49.9K	62.0K	88.7K	120K	200K	270K	470K	768K	1.00M
26.1	56.0	150	330	511	1.10K	2.20K	3.90K	5.62K	8.20K	11.3K	16.0K	22.0K	30.1K	42.2K	51.0K	64.9K	90.9K	121K	210K	300K	499K	1.00M	1.00M
28.0	62.0	160	332	560	1.20K	2.21K	3.92K	6.20K	8.87K	11.5K	16.2K	22.1K	33.0K	43.0K	51.1K	68.0K	91.0K	124K	220K	301K	510K	—	—

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	RoHM Part No.
				W	L	T	tb		10	50	200			
1%, 0402, 1/16 Watt	1.00 – 4.70	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.60	1.60	3.68	RHM(Value)LTR-ND	3.85/M	MCR01MZPFLxxxx
1%, 0402, 1/16 Watt	10.0 – 1.00M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.60	1.60	3.68	RHM(Value)LTR-ND	3.85/M	MCR01MZPFxxxx

RoHS Compliant

**MCR01 5%, 1/16 Watt — 0402 Series Resistor Values**

0.0	3.0	5.1	15	30	47	82	180	300	470	820	1.8K	3.0K	4.7K	7.5K	15K	30K	56K	110K	220K	470K	3.0M	3.0M
1.0	3.3	5.6	18	33	51	91	200	330	510	910	2.0K	3.3K	5.1K	8.2K	18K	33K	62K	120K	270K	560K	3.0M	3.0M
1.1	3.9	8.2	20	36	56	100	220	360	560	1.0K	2.2K	3.6K	5.6K	10K	22K	39K	68K	150K	300K	680K	—	—
2.0	4.3	10	22	39	68	150	240	390	620	1.2K	2.4K	3.9K	6.2K	11K	24K	43K	82K	180K	330K	1.0M	—	—
2.2	4.7	12	27	43	75	160	270	430	680	1.5K	2.7K	4.3K	6.8K	12K	27K	47K	91K	180K	330K	620K	1.5M	—

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 10,000	RoHM Part No.
				W	L	T	tb		10	50	200			
5%, 0402, 1/16 Watt	0.0 – 3.3M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)JCT-ND	.54	1.44	3.32	RHM(Value)JTR-ND	2.71/M	MCR01MZPJxxxx

RoHS Compliant

**MCR03 1%, 1/10 Watt — 0603 Series Resistor Values**

10.0	17.4	28.7	46.4	75.0	130	221	360	576	953	1.65K	2.74K	4.42K	7.15K	12.1K	21.0K	34.0K	54.9K	91.0K	160K	267K	430K	681K	910K
10.2	17.8	29.4	47.0	76.8	133	226	365	590	976	1.69K	2.80K	4.53K	7.32K	12.4K	21.5K	34.8K	56.2K	93.1K	162K	270K	432K	688K	910K
10.5	18.0	30.0	47.5	78.7	137	232	374	604	1.00K	1.74K	2.87K	4.64K	7.50K	12.7K	22.0K	35.7K	57.6K	95.3K	165K	274K	442K	715K	910K
10.7	18.2	30.1	48.7	80.6	140	237	383	619	1.02K	1.78K	2.94K	4.70K	7.68K	13.0K	22.1K	36.0K	59.0K	97.6K	169K	280K	453K	732K	910K
11.0	18.7	30.9	49.9	82.0	143	240	390	620	1.05K	1.80K	3.00K	4.75K	7.87K	13.3K	22.6K	36.5K	60.4K	100K	174K	287K	464K	750K	910K
11.3	19.1	31.6	51.0	82.5	147	243	392	634	1.07K	1.82K	3.01K	4.87K	8.06K	13.7K	23.2K	37.4K	61.9K	102K	178K	294K	470K	768K	910K
11.5	19.6	32.4	51.0	84.5	150	249	402	649	1.10K	1.87K	3.09K	4.99K	8.20K	14.0K	23.7K	38.3K	62.0K	105K	180K	300K	475K	787K	910K
11.8	20.0	33.0	52.3	88.7	154	255	412	665	1.13K	1.91K	3.16K	5.10K	8.25K	14.3K	24.0K	39.0K	63.4K	107K	182K	301K	487K	806K	910K
12.0	20.5	33.2	53.6	90.9	158	261	422	680	1.15K	1.96K	3.24K	5.11K	8.45K	14.7K	24.3K	39.2K	64.9K	110K	187K	309K	499K	820K	910K
12.1	21.0	34.0	54.9	91.0	160	267	430	681	1.18K	2.00K	3.30K	5.23K	8.66K	15.0K	24.9K	40.2K	66.5K	113K	191K	316K	510K	825K	910K
12.4	21.5	34.8	56.0	93.1	162	270	432	698	1.20K	2.05K	3.32K	5.36K	8.87K	15.4K	25.5K	41.2K	68.0K	115K	196K	324K	511K	845K	910K
12.7	22.0	35.7	56.2	95.3	165	274	442	715	1.21K	2.10K	3.40K	5.49K	9.09K	15.8K	26.1K	42.2K	68.1K	118K	200K	330K	523K	866K	910K
13.0	22.1	36.0	57.6	97.6	169	280	453	732	1.24K	2.15K	3.46K	5.60K	9.10K	16.0K	26.7K	43.0K	69.8K	120K	205K	332K	536K	887K	910K
13.3	22.6	36.5	59.0	100	174	287	464	750	1.27K	2.20K	3.57K	5.62K	9.31K	16.2K	27.0K	43.2K	71.5K	121K	210K	340K	549K	909K	910K
13.7	23.2	37.4	60.4	102	178	294	470	768	1.30K	2.21K	3.60K	5.76K	9.53K	1									

MCR03 5%, 1/10 Watt — 0603 Series Resistor Values

0.0	1.8	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M
1.0	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M
1.1	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M
1.2	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M
1.3	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	8.2M
1.5	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	10M
1.6	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0603, 1/10 Watt	0.0 – 10M	50	0.100W	0.8	1.6	0.45	0.3	RHM(Value)GCT-ND	.50	1.35	3.11	RHM(Value)GTR-ND	2.27/M	MCR0302PJxxxx

• RoHS Compliant

MCR10 1%, 1/4 Watt — 0805 Series Low Ohmic Resistor Values – RoHS Compliant

.047	.062	.082	.11	.15	.20	.27	.36	.47	.56	.75
.051	.068	.091	.12	.16	.22	.30	.39	.51	.62	.82
.056	.075	.10	.13	.18	.24	.33	.43	.51	.68	.91

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 0805, 1/4 Watt	.047 – .091	0.25W	1.25	2.0	0.55	0.4	RHM(Value)NCT-ND	2.18	7.72	25.41	RHM(Value)NTR-ND	79.86/M	MCR10EZHFxxxx
1%, 0805, 1/4 Watt	.10 – .91	0.25W	1.25	2.0	0.55	0.4	RHM(Value)MCT-ND	1.02	3.63	11.97	RHM(Value)MTR-ND	34.13/M	MCR10EZHLxxxx

MCR10 1%, 1/4, 1/8 Watt — 0805 Series Resistor Values

1.00	12.7	22.0	35.7	56.2	93.1	162	270	432	696	1.20K	2.05K	3.32K	5.36K	8.87K	15.4K	25.5K	41.2K	66.5K	113K	191K	316K	510K	825K	1.50M
1.10	13.0	22.1	36.0	57.6	95.3	165	274	442	715	1.21K	2.10K	3.40K	5.49K	9.09K	15.8K	26.1K	42.2K	68.0K	115K	196K	324K	511K	845K	1.54M
1.30	13.3	22.6	36.5	59.0	97.6	169	280	453	732	1.24K	2.15K	3.48K	5.60K	9.10K	16.0K	26.7K	43.0K	68.1K	118K	200K	330K	523K	866K	1.58M
1.50	13.7	23.2	37.4	60.4	100	174	287	464	750	1.27K	2.20K	3.57K	5.62K	9.31K	16.2K	27.0K	43.2K	69.8K	120K	205K	332K	536K	887K	1.62M
1.80	14.0	23.7	38.3	61.9	102	178	294	470	768	1.30K	2.21K	3.60K	5.76K	9.53K	16.5K	27.4K	44.2K	71.5K	121K	210K	340K	549K	909K	1.65M
2.00	14.3	24.0	39.0	62.0	105	180	300	475	787	1.33K	2.26K	3.65K	5.90K	9.76K	16.9K	28.0K	45.3K	73.2K	124K	215K	348K	560K	931K	1.69M
2.20	14.7	24.3	39.2	63.4	107	182	301	487	806	1.37K	2.32K	3.74K	6.04K	10.0K	17.4K	28.7K	46.4K	75.0K	127K	220K	357K	562K	953K	1.74M
3.00	15.0	24.9	40.2	64.9	110	187	309	499	820	1.40K	2.37K	3.83K	6.19K	10.2K	17.8K	29.4K	47.0K	76.8K	130K	221K	360K	576K	976K	1.80M
3.90	15.4	25.5	41.2	66.5	113	191	316	510	825	1.43K	2.40K	3.90K	6.20K	10.5K	18.0K	30.0K	47.5K	78.7K	133K	226K	365K	590K	1.00M	1.82M
4.70	15.8	26.1	42.2	68.0	115	196	324	511	845	1.47K	2.43K	3.92K	6.34K	10.7K	18.2K	30.1K	48.7K	80.6K	137K	232K	374K	604K	1.02M	1.87M
5.60	16.0	26.7	43.0	68.1	118	200	330	523	866	1.50K	2.49K	4.02K	6.49K	11.0K	18.7K	30.9K	49.9K	82.0K	140K	237K	380K	619K	1.05M	1.91M
6.20	16.2	27.0	43.2	69.8	120	205	332	536	887	1.54K	2.55K	4.12K	6.65K	11.3K	19.1K	31.6K	51.0K	82.5K	143K	240K	390K	620K	1.10M	1.96M
6.80	16.5	27.4	44.2	71.5	121	210	340	549	909	1.58K	2.61K	4.22K	6.80K	11.5K	19.6K	32.4K	51.1K	84.5K	147K	243K	392K	634K	1.13M	2.00M
7.50	16.9	28.0	45.3	73.2	124	215	348	560	910	1.60K	2.67K	4.30K	6.81K	11.8K	20.0K	33.0K	52.3K	86.6K	150K	249K	402K	649K	1.15M	2.05M
10.0	17.4	28.7	46.4	75.0	127	220	357	562	931	1.62K	2.70K	4.32K	6.98K	12.0K	20.5K	33.2K	53.6K	88.7K	154K	255K	412K	665K	1.18M	2.10M
10.2	17.8	29.4	47.0	76.8	130	221	360	576	953	1.65K	2.74K	4.42K	7.15K	12.1K	21.0K	34.0K	54.9K	90.9K	158K	261K	422K	680K	1.20M	2.15M
10.5	18.0	30.0	47.5	78.7	133	226	365	590	976	1.69K	2.80K	4.53K	7.32K	12.4K	21.5K	34.8K	56.0K	91.0K	160K	267K	430K	681K	1.21M	2.20M
10.7	18.2	30.1	48.7	80.6	137	232	374	604	1.00K	1.74K	2.87K	4.64K	7.50K	12.7K	22.0K	35.7K	56.2K	93.1K	162K	270K	432K	698K	1.24M	
11.0	18.7	30.9	49.9	82.0	140	237	383	619	1.02K	1.78K	2.94K	4.70K	7.68K	13.0K	22.1K	36.0K	57.6K	95.3K	165K	274K	442K	715K	1.27M	
11.3	19.1	31.6	51.0	82.5	143	240	390	620	1.05K	1.80K	3.00K	4.75K	7.87K	13.3K	22.6K	36.5K	59.0K	97.6K	169K	280K	453K	732K	1.30M	
11.5	19.6	32.4	51.1	84.5	147	243	392	634	1.07K	1.82K	3.01K	4.87K	8.06K	13.7K	23.2K	37.4K	60.4K	100K	174K	287K	464K	750K	1.33M	
11.8	20.0	33.0	52.3	86.6	150	249	402	649	1.10K	1.87K	3.09K	4.99K	8.20K	14.0K	23.7K	38.3K	61.9K	102K	178K	294K	475K	768K	1.37M	
12.0	20.5	33.2	53.6	88.7	154	255	412	665	1.13K	1.91K	3.16K	5.10K	8.25K	14.3K	24.0K	39.0K	62.0K	105K	180K	300K	475K	787K	1.40M	
12.1	21.0	34.0	54.9	90.9	158	261	422	680	1.15K	1.96K	3.24K	5.11K	8.45K	14.7K	24.3K	39.2K	63.4K	107K	182K	301K	487K	806K	1.43M	
12.4	21.5	34.8	56.0	91.0	160	267	430	681	1.18K	2.00K	3.30K	5.23K	8.66K	15.0K	24.9K	40.2K	64.9K	110K	187K	309K	499K	820K	1.47M	



Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0805, 1/4 Watt	1.00 – 7.50	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)OCT-ND	1.02	3.63	11.97	RHM(Value)CTR-ND	34.07/M	MCR10EZHLxxxx
1%, 0805, 1/8 Watt	10.0 – 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)OCT-ND	.28	.97	3.20	RHM(Value)CTR-ND	4.01/M	MCR10EZHFxxxx
1%, 0805, 1/8 Watt	10.0 – 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CRCT-ND	.27	.96	3.14	RHM(Value)CRTR-ND	3.63/M	MCR10EZPFxxxx

• Values also available as Resin Overcoated – which are also RoHS Compliant

MCR10 5%, 1/8 Watt — 0805 Series Resistor Values

0.0	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	9.1M
1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M	10M
1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M	
1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M	
1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M	
1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	7.5M	
1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	8.2M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	0.0 – 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ACT-ND	.55	1.48	3.40	RHM(Value)ATR-ND	3.27/M	MCR10EZHXxxx
5%, 0805, 1/8 Watt	0.0 – 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ARCT-ND	.24	.85	2.80	RHM(Value)ARTR-ND	2.91/M	MCR10EZPJxxx

• Values also available as Resin Overcoated – which are also RoHS Compliant

MCR18 1

MCR18 1%, 1/4 Watt — 1206 Series Resistor Values

1.00	10.7	19.1	33.0	54.9	93.1	169	294	487	825	1.50K	2.61K	4.32K	7.32K	13.0K	23.2K	39.2K	66.5K	118K	210K	357K	590K	1.02M	1.82M
1.10	11.0	19.6	33.2	56.0	95.3	174	300	499	845	1.54K	2.67K	4.42K	7.50K	13.3K	23.7K	40.2K	68.0K	120K	215K	360K	604K	1.05M	1.87M
1.20	11.3	20.0	34.0	56.2	97.6	178	301	510	866	1.58K	2.70K	4.53K	7.68K	13.7K	24.0K	41.2K	68.1K	121K	220K	365K	619K	1.07M	1.91M
1.30	11.5	20.5	34.8	57.6	100	180	309	511	887	1.60K	2.74K	4.64K	7.87K	14.0K	24.3K	42.2K	69.8K	124K	221K	374K	620K	1.10M	1.96M
1.50	11.8	21.0	35.7	59.0	102	182	316	523	909	1.62K	2.80K	4.70K	8.06K	14.3K	24.9K	43.0K	71.5K	127K	226K	383K	634K	1.13M	2.00M
1.60	12.0	21.5	36.0	60.4	105	187	324	536	910	1.65K	2.87K	4.75K	8.20K	14.7K	25.5K	43.2K	73.2K	130K	232K	390K	649K	1.15M	2.05M
1.80	12.1	22.0	36.5	61.9	107	191	330	549	931	1.69K	2.94K	4.87K	8.25K	15.0K	26.1K	44.2K	75.0K	133K	237K	392K	665K	1.18M	2.10M
2.00	12.4	22.1	37.4	62.0	110	196	332	560	953	1.74K	3.00K	4.99K	8.45K	15.4K	26.7K	45.3K	76.8K	137K	240K	402K	680K	1.20M	2.15M
2.20	12.7	22.6	38.3	63.4	113	200	340	562	976	1.78K	3.01K	5.10K	8.66K	15.8K	27.0K	46.4K	78.7K	140K	243K	412K	681K	1.21M	2.20M
2.40	13.0	23.2	39.0	64.9	115	205	348	576	1.00K	1.80K	3.09K	5.11K	8.87K	16.0K	28.0K	47.0K	80.6K	143K	249K	422K	698K	1.24M	
2.70	13.3	23.7	39.2	66.5	118	210	357	590	1.02K	1.82K	3.16K	5.23K	9.09K	16.2K	28.7K	47.5K	82.0K	147K	255K	430K	715K	1.27M	
3.00	13.7	24.0	40.2	68.0	120	215	360	604	1.05K	1.87K	3.24K	5.36K	9.10K	16.5K	29.4K	48.7K	82.5K	150K	261K	432K	732K	1.30M	
3.30	14.0	24.3	41.2	68.1	121	220	365	619	1.07K	1.91K	3.30K	5.49K	9.31K	16.9K	30.0K	49.9K	84.5K	154K	267K	442K	750K	1.33M	
3.60	14.3	24.9	42.2	69.8	124	221	374	620	1.10K	1.96K	3.32K	5.60K	9.53K	17.4K	30.1K	51.0K	86.6K	158K	270K	453K	768K	1.37M	
3.90	14.7	25.5	43.0	71.5	127	226	383	634	1.13K	2.00K	3.40K	5.62K	9.76K	17.8K	30.9K	51.1K	88.7K	160K	274K	464K	787K	1.40M	
4.30	15.0	26.1	43.2	73.2	130	232	390	649	1.15K	2.05K	3.48K	5.76K	10.0K	18.0K	31.6K	52.3K	90.9K	162K	280K	470K	806K	1.43M	
4.70	15.4	26.7	44.2	75.0	133	237	392	665	1.18K	2.10K	3.57K	5.90K	10.2K	18.2K	32.4K	53.6K	91.0K	165K	287K	475K	820K	1.47M	
5.10	15.8	27.0	45.3	76.8	137	240	402	680	1.20K	2.15K	3.60K	6.04K	10.5K	18.7K	33.0K	54.9K	93.1K	169K	294K	487K	825K	1.50M	
5.60	16.0	27.4	46.4	78.7	140	243	412	681	1.21K	2.20K	3.65K	6.19K	10.7K	19.1K	33.2K	56.0K	95.3K	174K	300K	499K	845K	1.54M	
6.20	16.2	28.0	47.0	80.6	143	249	422	698	1.24K	2.21K	3.74K	6.20K	11.0K	19.6K	34.0K	56.2K	97.6K	178K	301K	510K	866K	1.58M	
6.80	16.5	28.7	47.5	82.0	147	255	430	715	1.27K	2.26K	3.83K	6.34K	11.3K	20.0K	34.8K	57.6K	100K	180K	309K	511K	887K	1.60M	
7.50	16.9	29.4	48.7	82.5	150	261	432	732	1.30K	2.32K	3.90K	6.49K	11.5K	20.5K	35.7K	59.0K	102K	182K	316K	523K	909K	1.62M	
8.20	17.4	30.0	49.9	84.5	154	267	442	750	1.33K	2.37K	3.92K	6.65K	11.8K	21.0K	36.0K	60.4K	105K	187K	324K	536K	910K	1.65M	
9.10	17.8	30.1	51.0	86.6	158	270	453	768	1.37K	2.40K	4.02K	6.80K	12.0K	21.5K	36.5K	61.9K	107K	191K	330K	549K	931K	1.69M	
10.0	18.0	30.9	51.1	88.7	160	274	464	787	1.40K	2.43K	4.12K	6.81K	12.1K	22.0K	37.4K	62.0K	110K	196K	332K	560K	953K	1.74M	
10.2	18.2	31.6	52.3	90.9	162	280	470	806	1.43K	2.49K	4.22K	6.98K	12.4K	22.1K	38.3K	63.4K	113K	200K	340K	562K	976K	1.78M	
10.5	18.7	32.4	53.6	91.0	165	287	475	820	1.47K	2.55K	4.30K	7.15K	12.7K	22.6K	39.0K	64.9K	115K	205K	348K	576K	1.00M	1.80M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	1.00 – 9.10	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	1.47	5.23	17.23	RHM(Value)FTR-ND	52.10/M	MCR18EZHFLxxxx
1%, 1206, 1/4 Watt	10.0 – 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	.34	1.21	3.96	RHM(Value)FTR-ND	6.63/M	MCR18EZHFLxxxx
1%, 1206, 1/4 Watt	10.0 – 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FRCT-ND	.33	1.18	3.91	RHM(Value)FRTR-ND	6.54/M	MCR18EZHFLxxxx

◆ Values also available as Resin Overcoated – which are also RoHS Compliant

MCR18 5%, 1/4 Watt — 1206 Series Resistor Values

0.0	3.3	11	39	150	510	1.8K	6.2K	22K	75K	270K	910K	3.3M
1.0	3.6	12	43	160	560	2.0K	6.8K	24K	82K	300K	1.0M	3.6M
1.1	3.9	13	51	180	620	2.2K	7.5K	27K	91K	330K	1.1M	3.9M
1.2	4.3	15	56	200	680	2.4K	8.2K	30K	100K	360K	1.2M	4.3M
1.3	4.7	16	62	220	750	2.7K	9.1K	33K	110K	390K	1.3M	4.7M
1.5	5.1	18	68	240	820	3.0K	10K	36K	120K	430K	1.5M	5.1M
1.6	5.6	20	75	270	910	3.3K	11K	39K	130K	470K	1.6M	5.6M
1.8	6.2	22	82	300	1.0K	3.6K	12K	43K	150K	510K	1.8M	6.2M
2.0	6.8	24	91	330	1.1K	3.9K	13K	47K	160K	560K	2.0M	6.8M
2.2	7.5	27	100	360	1.2K	4.3K	15K	51K	180K	620K	2.2M	7.5M
2.4	8.2	30	110	390	1.3K	4.7K	16K	56K	200K	680K	2.4M	8.2M
2.7	9.1	33	120	430	1.5K	5.1K	18K	62K	220K	750K	2.7M	9.1M
3.0	10	36	130	470	1.6K	5.6K	20K	68K	240K	820K	3.0M	10M

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	0.0 – 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ECT-ND	.66	1.79	4.10	RHM(Value)ETR-ND	5.78/M	MCR18EZHJxxx
5%, 1206, 1/4 Watt	0.0 – 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ERCT-ND	.29	1.02	3.38	RHM(Value)ERTR-ND	4.36/M	MCR18EZHJxxx

◆ Values also available as Resin Overcoated – which are also RoHS Compliant

MCR25 1%, 1/2 Watt — 1210 Series Low Ohmic Resistor Values – RoHS Compliant

.047	.062	.082	.11	.15	.20	.27	.36	.47	.62	.82
.051	.068	.091	.12	.16	.22	.30	.39	.51	.68	.91
.056	.075	.10	.13	.18	.24	.33	.43	.56	.75	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 1210, 1/2 Watt	.047 – .091	0.5W	2.5	3.2	0.55	0.5	RHM(Value)TCT-ND	4.84	17.12	56.39	RHM(Value)TTR-ND	186.59/M	MCR25JZHFLxxxx
1%, 1210, 1/2 Watt	.10 – .91	0.5W	2.5	3.2	0.55	0.5	RHM(Value)SCT-ND	1.47	5.23	17.23	RHM(Value)STR-ND	52.28/M	MCR25JZHFLxxxx

MCR50 1%, 1/2 Watt — 2010 Series Low Ohmic Resistor Values – RoHS Compliant

.047	.062	.082	.11	.15	.20	.25	.33	.43	.56	.75
.051	.068	.091	.12	.16	.22	.27	.36	.47	.62	.82
.056	.075	.10	.13	.18	.24	.30	.39	.51	.68	.91

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2010, 1/2 Watt	.047 – .091	0.5W	2.5	5.0	0.55	0.6	RHM(Value)VCT-ND	4.68	16.58	54.63	RHM(Value)VTR-ND	180.05/M	MCR50JZHFLxxxx
1%, 2010, 1/2 Watt	.10 – .91	0.5W	2.5	5.0	0.55	0.6	RHM(Value)UCT-ND	4.03	14.28	47.04	RHM(Value)UTR-ND	154.64/M	MCR50JZHFLxxxx

(Continued)

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.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.  
1786 (UK091) uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

**MCR100 1%, 1 Watt — 2512 Series Low Ohmic Resistor Values – RoHS Compliant**

.047	.062	.082	.11	.15	.20	.27	.36	.47	.62	.82
.051	.068	.091	.12	.16	.22	.30	.39	.51	.68	.91
.056	.075	.10	.13	.18	.24	.33	.43	.56	.75	

Description	Value Range (Ω)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Rohm Part No.
			W	L	T	tb		10	50	200			
1%, 2512, 1 Watt	.047 – .091	1W	3.2	6.3	0.55	0.6	RHM(Value)XCT-ND	8.54	30.25	99.64	RHM(Value)XTR-ND	334.69/M	MCR100JZHFSxxxx
1%, 2512, 1 Watt	.10 – .91	1W	3.2	6.3	0.55	0.6	RHM(Value)WCT-ND	6.64	23.50	77.43	RHM(Value)WTR-ND	258.46/M	MCR100JZHLxxxx

**KTR10 5%, 1/8 Watt, High Voltage — 0805 Series Resistor Values – RoHS Compliant**

Size Code:	Temperature Coefficient (ppm/°C)	Resistance Range (Ω):	5%	5%	1.0 ≤ R ≤ 10M	±200	±200	Resistor Values									
								1.0	27	100	510	22K	300K	1.0M	4.7M		
								4.7	33	150	1.0K	33K	470K	1.5M	5.1M		
								5.1	47	200	3.0K	47K	510K	2.0M	5.6M		
								10	56	300	10K	100K	680K	2.2M	10M		
								22	62	390	20K	200K	750K	3.3M	30M		

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	1.0 – 30M	400	0.125W	1.25	2.0	0.55	0.4	RHM(Value)BCT-ND	1.40	3.76	8.65	RHM(Value)BTR-ND	21.81/M	KTR10E2PJxxx

**KTR18 5%, 1/4 Watt, High Voltage — 1206 Series Resistor Values – RoHS Compliant**

1.5	8.2	33	82	160	330	680	1.3K	3.0K	7.5K	22K	62K	150K	330K	680K	1.5M	3.9M	10M
1.8	10	39	91	180	360	750	1.5K	3.3K	8.2K	27K	68K	180K	360K	750K	1.6M	4.7M	
2.0	12	47	100	200	390	820	1.6K	3.9K	10K	33K	75K	200K	390K	820K	1.8M	5.1M	
3.3	16	51	110	220	430	910	1.8K	4.3K	12K	39K	82K	220K	430K	1.0M	2.0M	5.6M	
4.7	18	56	120	240	470	1.0K	2.0K	4.7K	15K	47K	100K	240K	470K	1.1M	2.2M	6.8M	
5.6	22	68	130	270	510	1.1K	2.2K	5.6K	18K	51K	110K	270K	510K	1.2M	3.0M	7.5M	
6.8	27	75	150	300	560	1.2K	2.7K	6.8K	20K	56K	120K	300K	560K	1.3M	3.3M	8.2M	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	1.5 – 10M	500	0.25W	1.6	3.2	0.55	0.5	RHM(Value)PCT-ND	1.40	3.76	8.65	RHM(Value)PTR-ND	21.81/M	KTR18E2PJxxx

**ESR03 5%, 1/5 Watt, Anti-Surge — 0603 Series Resistor Values – RoHS Compliant**

Size Code:	Temperature Coefficient (ppm/°C)			Resistance Range (Ω):	5%	5%	1.0 ≤ R ≤ 10M	±200	±200	±200	5.1K
	0603	0805	1206								

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0603, 1/5 Watt	13 – 22K	50	0.2W	0.8	1.6	0.45	0.3	RHM(Value)DCT-ND	1.03	2.77	6.37	RHM(Value)DTR-ND	13.79/M	ESR03E2PJxxx

**ESR10 5%, 1/4 Watt, Anti-Surge — 0805 Series Resistor Values – RoHS Compliant**

1	2.2	5.6	12	24	47	91	180	360	820	1.8K	3.6K	7.5K	20K	51K	220K
1.1	2.4	6.2	13	27	51	100	200	390	910	2.0K	3.9K	8.2K	22K	56K	300K
1.2	2.7	6.8	15	30	56	110	220	470	1.0K	2.2K	4.3K	9.1K	24K	68K	470K
1.5	3.3	7.5	16	33	62	120	240	510	1.1K	2.4K	4.7K	10K	27K	82K	560K
1.6	3.9	8.2	18	36	68	130	270	560	1.2K	2.7K	5.1K	12K	33K	91K	1.5M
1.8	4.7	10	20	39	75	150	300	680	1.5K	3.0K	5.6K	13K	39K	100K	10M
2	5.1	11	22	43	82	160	330	750	1.6K	3.3K	6.8K	18K	47K	200K	

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/4 Watt	1 – 10M	150	0.25W	1.25	2.0	0.55	0.4	RHM(Value)KCT-ND	1.03	2.77	6.37	RHM(Value)KTR-ND	13.79/M	ESR10E2PJxxx

**ESR18 5%, 1/3 Watt, Anti-Surge — 1206 Series Resistor Values – RoHS Compliant**

1	6.8	18	39	75	150	300	600	1.2K	2.4K	4.7K	10K	20K	50K	100K	1.0M
1.1	7.5	20	47	91	180	360	720	1.5K	3.0K	6.0K	12K	24K	60K	120K	3.0M
2.2	9.1	24	62	120	240	480	960	1.8K	3.6K	7.2K	14K	28K	70K	140K	10M
2.4	10	27	75	150	300	600	1.2K	2.4K	4.7K	9.4K	18.8K	37.6K	75.2K	150.4K	
3.3	12	30	100	200	400	800	1.6K	3.2K	6.4K	12.8K	25.6K	51.2K	102.4K		
4.7	13	33	120	240	480	960	1.9K	3.8K	7.6K	15.2K	30.4K	60.8K	121.6K		
5.1	15	36	200	400	800	1.6K	3.2K	6.4K	12.8K	25.6K	51.2K	102.4K			

Description	Value Range (Ω)	Limiting Element Voltage (V)	Rated Power @70°C	Dimensions – mm				Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/3 Watt	1 – 10M	200	0.33W	1.25	2.0	0.55	0.4	RHM(Value)JCT-ND	1.66	4.47	10.27	RHM(Value)JTR-ND	27.56/M	ESR18E2PJxxx

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.

**Free shipping on orders over £50! All prices are in British pound sterling and include duties.**

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

(UK091) 1787