



Figure 1. Dimensions



Figure 2A.



Figure 2B.



Figure 2C.



Figure 2D.

DESCRIPTION

By its name, this 128-Bin Resistor Kits use our patented Super Enclosure which has 128 individually lidded and labeled bins for storing up to 128 different types of SMD resistors. Figure 2's shows the photos of the Super Enclosure. Figure 1 shows the Super Enclosure dimensions. Table 3 is the selection guide for different type of kits available in this series and their online purchasing links. The kits are categorized by the size of the resistors, the number of values/kit, and the number of pieces/value. Table 1 shows the specifications of the resistors. Please note that for the 510 value kit, it covers all the E-96 series resistance values; for the 131 values, it covers approximately the E-24 series resistance values, but implemented by 1% resistors, as opposed to $\pm 5\%$ resistors. For example,

our selected resistor value is 2.49Ω , while the original E-24 value is 2.4Ω .

Operating the enclosure is easy and convenient so that your time for obtaining a particular resistor is minimized to just seconds.

The kits can easily be placed on a work bench, put on a shelf, or transported to other sites, and are the best choice for building prototypes, doing experiments on new circuits, or reworking printed circuit boards.

For more detailed information:

www.analogtechnologies.com

www.smtzone.com

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SPECIFICATIONS

Table 1. Characteristics

Type	Power	Operating Temperature Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range	Tolerance	Temperature Coefficient	Jumper Criteria	
									Rated Current	Max. Current
0402	1/16W	-55°C to 155°C	50V	100V	100V	1 Ω to 20M Ω 0 Ω Jumper < 0.05 Ω	1%	1 Ω \leq R \leq 10 Ω ± 200 ppm/ $^{\circ}$ C 10 Ω < R \leq 10M Ω ± 100 ppm/ $^{\circ}$ C 10M Ω < R \leq 22M Ω ± 200 ppm/ $^{\circ}$ C	1.0A	2.0A
0603	1/10W	-55°C to 155°C	75V	150V	100V	0 Ω to 20M Ω 0 Ω Jumper < 0.05 Ω	1%	1 Ω \leq R \leq 10 Ω ± 200 ppm/ $^{\circ}$ C 10 Ω < R \leq 10M Ω ± 100 ppm/ $^{\circ}$ C 10M Ω < R \leq 22M Ω ± 200 ppm/ $^{\circ}$ C	1.0A	2.0A
0805	1/8W	-55°C to 155°C	150V	300V	300V	0 Ω to 20M Ω 0 Ω Jumper < 0.05 Ω	1%	1 Ω \leq R \leq 10 Ω ± 200 ppm/ $^{\circ}$ C 10 Ω < R \leq 10M Ω ± 100 ppm/ $^{\circ}$ C 10M Ω < R \leq 22M Ω ± 200 ppm/ $^{\circ}$ C	2.0A	5.0A
1206	1/4W	-55°C to 155°C	200V	400V	500V	0 Ω to 20M Ω 0 Ω Jumper < 0.05 Ω	1%	1 Ω \leq R \leq 10 Ω ± 200 ppm/ $^{\circ}$ C 10 Ω < R \leq 10M Ω ± 100 ppm/ $^{\circ}$ C 10M Ω < R \leq 22M Ω ± 200 ppm/ $^{\circ}$ C	2.0A	10.0A

Table 2. For outlines, please refer to Figure 3.

Type	L	W	H	I ₁	I ₂	Unit
0402	0.039 ± 0.002	0.020 ± 0.002	0.013 ± 0.002	0.008 ± 0.004	0.010 ± 0.004	inch
	1.00 ± 0.05	0.50 ± 0.05	0.32 ± 0.05	0.20 ± 0.10	0.25 ± 0.10	mm
0603	0.063 ± 0.004	0.031 ± 0.004	0.018 ± 0.004	0.010 ± 0.006	0.010 ± 0.006	inch
	1.60 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.25 ± 0.15	0.25 ± 0.15	mm
0805	0.079 ± 0.004	0.049 ± 0.004	0.020 ± 0.004	0.014 ± 0.008	0.014 ± 0.008	inch
	2.00 ± 0.10	1.25 ± 0.10	0.50 ± 0.10	0.35 ± 0.20	0.35 ± 0.20	mm
1206	0.122 ± 0.004	0.063 ± 0.004	0.022 ± 0.004	0.018 ± 0.008	0.018 ± 0.008	inch
	3.10 ± 0.10	1.60 ± 0.10	0.55 ± 0.10	0.45 ± 0.20	0.45 ± 0.20	mm

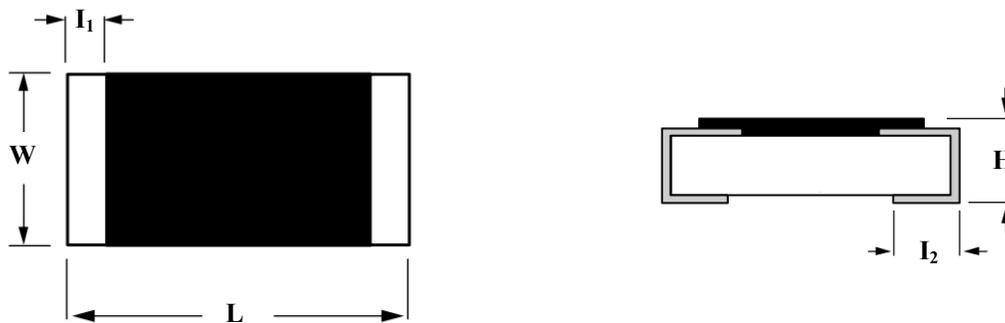


Figure 3. Resistor Dimensions

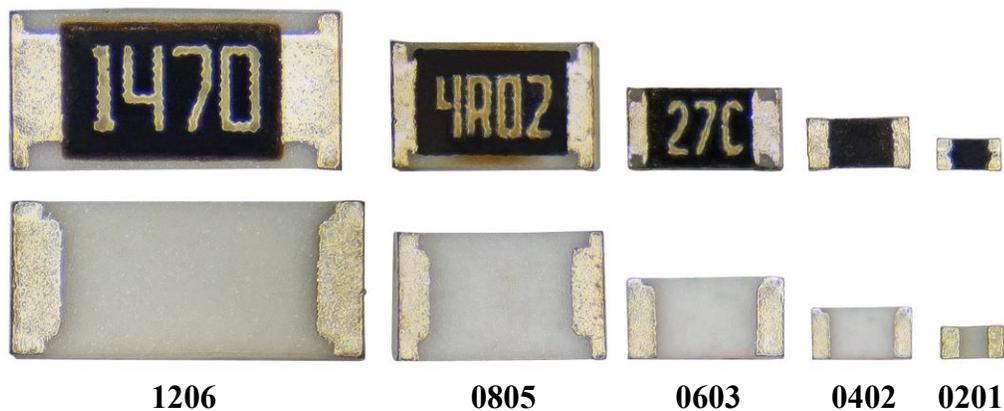


Figure 4. Resistor Marking Code

a: Amazon, 15% higher priced due to commission fee.

K: Digikey, 15% higher priced due to commission fee.

SZ: SMTZone.com, our own online store, no commission fee.

AS: shop.analogtechnologies.com, our own online store, no commission fee.

Table 3. Selection Guide for different type of kits available.

Value \ Size	0402	0603	0805	1206
128 Values	R04E24-50 50PCs/Value	R06E24-50 50PCs/Value	R08E24-50 50PCs/Value	R12E24-50 50PCs/Value
				
	R04E24-100 100PCs/Value	R06E24-100 100PCs/Value	R08E24-100 100PCs/Value	R12E24-100 100PCs/Value
				
	R04E24-200 200PCs/Value	R06E24-200 200PCs/Value	R08E24-200 200PCs/Value	R12E24-200 200PCs/Value
				
	R04E24-500 500PCs/Value	R06E24-500 500PCs/Value	R08E24-500 500PCs/Value	R12E24-500 500PCs/Value
				
510 Values	R04E96-50 50PCs/Value	R06E96-50 50PCs/Value	R08E96-50 50PCs/Value	R12E96-50 50PCs/Value
				
	R04E96-100 100PCs/Value	R06E96-100 100PCs/Value	R08E96-100 100PCs/Value	R12E96-100 100PCs/Value
				
	R04E96-200 200PCs/Value	R06E96-200 200PCs/Value	R08E96-200 200PCs/Value	R12E96-200 200PCs/Value
				
	R04E96-500 500PCs/Value	R06E96-500 500PCs/Value	R08E96-500 500PCs/Value	R12E96-500 500PCs/Value
				



Table 4. Available Values for 128 Value (in bold) and 510 Value Kits.

Note: 1206 & 0805 use 4 digit marking. 0603 use 3 digit marking. 0402 & 0201 don't use marking. See Figure 4.

Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking			
0.1	0R1		1.00	1R00	01Y	10.0	10R0	01X	100	1000	01A	1.00k	1001	01B	10.0k	1002	01C	100k	1003	01D	1.00M	1004	01E
			0.0	0		10.2	10R2	02X	102	1020	02A	1.02k	1021	02B	10.2k	1022	02C	102k	1023	02D			
						10.5	10R5	03X	105	1050	03A	1.05k	1051	03B	10.5k	1052	03C	105k	1053	03D			
						10.7	10R7	04X	107	1070	04A	1.07k	1071	04B	10.7k	1072	04C	107k	1073	04D			
						11.0	11R0	05X	110	1100	05A	1.10k	1101	05B	11.0k	1102	05C	110k	1103	05D			
						11.3	11R3	06X	113	1130	06A	1.13k	1131	06B	11.3k	1132	06C	113k	1133	06D			
						11.5	11R5	07X	115	1150	07A	1.15k	1151	07B	11.5k	1152	07C	115k	1153	07D			
						11.8	11R8	08X	118	1180	08A	1.18k	1181	08B	11.8k	1182	08C	118k	1183	08D			
						12.1	12R1	09X	121	1210	09A	1.21k	1211	09B	12.1k	1212	09C	121k	1213	09D			
						12.4	12R4	10X	124	1240	10A	1.24k	1241	10B	12.4k	1242	10C	124k	1243	10D			
						12.7	12R7	11X	127	1270	11A	1.27k	1271	11B	12.7k	1272	11C	127k	1273	11D			
						13.0	13R0	12X	130	1300	12A	1.30k	1301	12B	13.0k	1302	12C	130k	1303	12D			
						13.3	13R3	13X	133	1330	13A	1.33k	1331	13B	13.3k	1332	13C	133k	1333	13D			
						13.7	13R7	14X	137	1370	14A	1.37k	1371	14B	13.7k	1372	14C	137k	1373	14D			
						14.0	14R2	15X	140	1400	15A	1.40k	1401	15B	14.0k	1402	15C	140k	1403	15D			
						14.3	14R3	16X	143	1430	16A	1.43k	1431	16B	14.3k	1432	16C	143k	1433	16D			
						14.7	14R7	17X	147	1470	17A	1.47k	1471	17B	14.7k	1472	17C	147k	1473	17D			
			1.50	1R50	18Y	15.0	15R0	18X	150	1500	18A	1.50k	1501	18B	15.0k	1502	18C	150k	1503	18D	1.50M	1504	18E
						15.4	15R4	19X	154	1540	19A	1.54k	1541	19B	15.4k	1542	19C	154k	1543	19D			
						15.8	15R8	20X	158	1580	20A	1.58k	1581	20B	15.8k	1582	20C	158k	1583	20D			
						16.2	16R2	21X	162	1620	21A	1.62k	1621	21B	16.2k	1622	21C	162k	1623	21D			
						16.5	16R5	22X	165	1650	22A	1.65k	1651	22B	16.5k	1652	22C	165k	1653	22D			
						16.9	16R9	23X	169	1690	23A	1.69k	1691	23B	16.9k	1692	23C	169k	1693	23D			
						17.4	17R4	24X	174	1740	24A	1.74k	1741	24B	17.4k	1742	24C	174k	1743	24D			
						17.8	17R8	25X	178	1780	25A	1.78k	1781	25B	17.8k	1782	25C	178k	1783	25D			
						18.2	18R2	26X	182	1820	26A	1.82k	1821	26B	18.2k	1822	26C	182k	1823	26D			
						18.7	18R7	27X	187	1870	27A	1.87k	1871	27B	18.7k	1872	27C	187k	1873	27D			
						19.1	19R1	28X	191	1910	28A	1.91k	1911	28B	19.1k	1912	28C	191k	1913	28D			
						19.6	19R6	29X	196	1960	29A	1.96k	1961	29B	19.6k	1962	29C	196k	1963	29D			
			2.00	2R00	30Y	20.0	20R0	30X	200	2000	30A	2.00k	2001	30B	20.0k	2002	30C	200k	2003	30D	2.00M	2004	30E
						20.5	20R5	31X	205	2050	31A	2.05k	2051	31B	20.5k	2052	31C	205k	2053	31D			
						21.0	21R0	32X	210	2100	32A	2.10k	2101	32B	21.0k	2102	32C	210k	2103	32D			
						21.5	21R5	33X	215	2150	33A	2.15k	2151	33B	21.5k	2152	33C	215k	2153	33D			
						22.1	22R1	34X	221	2210	34A	2.21k	2211	34B	22.1k	2212	34C	221k	2213	34D			
						22.6	22R6	35X	226	2260	35A	2.26k	2261	35B	22.6k	2262	35C	226k	2263	35D			
						23.2	23R2	36X	232	2320	36A	2.32k	2321	36B	23.2k	2322	36C	232k	2323	36D			
						23.7	23R7	37X	237	2370	37A	2.37k	2371	37B	23.7k	2372	37C	237k	2373	37D			
						24.3	24R3	38X	243	2430	38A	2.43k	2431	38B	24.3k	2432	38C	243k	2433	38D			



Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking			
			2.49	2R49	39Y	24.9	24R9	39X	249	2490	39A	2.49k	349I	39B	24.9k	2492	39C	249k	2493	39D	2.49M	2494	39E
						25.5	25R5	40X	255	2550	40A	2.55k	255I	40B	25.5k	2552	40C	255k	2553	40D			
						26.1	26R1	41X	261	2610	41A	2.61k	261I	41B	26.1k	2612	41C	261k	2613	41D			
						26.7	26R7	42X	267	2670	42A	2.67k	267I	42B	26.7k	2672	42C	267k	2673	42D			
						27.4	27R4	43X	274	2740	43A	2.74k	274I	43B	27.4k	2742	43C	274k	2743	43D			
						28.0	28R0	44X	280	2800	44A	2.80k	280I	44B	28.0k	2802	44C	280k	2803	44D			
						28.7	28R7	45X	287	2870	45A	2.87k	287I	45B	28.7k	2872	45C	287k	2873	45D			
						29.4	29R4	46X	294	2940	46A	2.94k	294I	46B	29.4k	2942	46C	294k	2943	46D			
			3.01	3R01	47Y	30.1	30R1	47X	301	3010	47A	3.01k	301I	47B	30.1k	3012	47C	301k	3013	47D	3.01M	3014	47E
						30.9	30R9	48X	309	3090	48A	3.09k	309I	48B	30.9k	3092	48C	309k	3093	48D			
						31.6	31R6	49X	316	3160	49A	3.16k	316I	49B	31.6k	3162	49C	316k	3163	49D			
						32.4	32R4	50X	324	3240	50A	3.24k	324I	50B	32.4k	3242	50C	324k	3243	50D			
						33.2	33R2	51X	332	3320	51A	3.32k	332I	51B	33.2k	3322	51C	332k	3323	51D			
						34.0	34R0	52X	340	3400	52A	3.40k	340I	52B	34.0k	3402	52C	340k	3403	52D			
						34.8	34R8	53X	348	3480	53A	3.48k	348I	53B	34.8k	3482	53C	348k	3483	53D			
						35.7	35R7	54X	357	3570	54A	3.57k	357I	54B	35.7k	3572	54C	357k	3573	54D			
						36.5	36R5	55X	365	3650	55A	3.65k	365I	55B	36.5k	3652	55C	365k	3653	55D			
						37.4	37R4	56X	374	3740	56A	3.74k	374I	56B	37.4k	3742	56C	374k	3743	56D			
						38.3	38R3	57X	383	3830	57A	3.83k	383I	57B	38.3k	3832	57C	383k	3833	57D			
						39.2	39R2	58X	392	3920	58A	3.92k	392I	58B	39.2k	3922	58C	392k	3923	58D			
			4.02	4R02	59Y	40.2	40R2	59X	402	4020	59A	4.02k	402I	59B	40.2k	4022	59C	402k	4023	59D	4.02M	4024	59E
						41.2	41R2	60X	412	4120	60A	4.12k	412I	60B	41.2k	4122	60C	412k	4123	60D			
						42.2	42R2	61X	422	4220	61A	4.22k	422I	61B	42.2k	4222	61C	422k	4223	61D			
						43.2	43R2	62X	432	4320	62A	4.32k	432I	62B	43.2k	4322	62C	432k	4323	62D			
						44.2	44R2	63X	442	4420	63A	4.42k	442I	63B	44.2k	4422	63C	442k	4423	63D			
						45.3	45R3	64X	453	4530	64A	4.53k	453I	64B	45.3k	4532	64C	453k	4533	64D			
						46.4	46R4	65X	464	4640	65A	4.64k	464I	65B	46.4k	4642	65C	464k	4643	65D			
						47.5	47R5	66X	475	4750	66A	4.75k	475I	66B	47.5k	4752	66C	475k	4753	66D			
						48.7	48R7	67X	487	4870	67A	4.87k	187I	67B	48.7k	4872	67C	487k	4873	67D			
0.50	0R5		4.99	4R99	68Y	49.9	49R9	68X	499	4990	68A	4.99k	199I	68B	49.9k	4992	68C	499k	4993	68D	4.99M	4994	68E
						51.1	51R1	69X	511	5110	69A	5.11k	511I	69B	51.1k	5112	69C	511k	5113	69D			
						52.3	52R3	70X	523	5230	70A	5.23k	523I	70B	52.3k	5232	70C	523k	5233	70D			
						53.6	53R6	71X	536	5360	71A	5.36k	536I	71B	53.6k	5362	71C	536k	5363	71D			
						54.9	54R9	72X	549	5490	72A	5.49k	549I	72B	54.9k	5492	72C	549k	5493	72D			
						56.2	56R2	73X	562	5620	73A	5.62k	562I	73B	56.2k	5622	73C	562k	5623	73D			
						57.6	57R6	74X	576	5760	74A	5.76k	576I	74B	57.6k	5762	74C	576k	5763	74D			
			5.90	5R90	75Y	59.0	59R0	75X	590	5900	75A	5.90k	590I	75B	59.0k	5902	75C	590k	5903	75D	5.90M	5904	75E
						60.4	60R4	76X	604	6040	76A	6.04k	604I	76B	60.4k	6042	76C	604k	6043	76D			
						61.9	61R9	77X	619	6190	77A	6.19k	619I	77B	61.9k	6192	77C	619k	6193	77D			
						63.4	63R4	78X	634	6340	78A	6.34k	634I	78B	63.4k	6342	78C	634k	6343	78D			
						64.9	64R9	79X	649	6490	79A	6.49k	649I	79B	64.9k	6492	79C	649k	6493	79D			



Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking	Resistance	4 Digit Marking	3 Digit Marking
			66.5	66R5	80X	665	6650	80A	6.65k	6651	80B	66.5k	6652	80C	665k	6653	80D			
			68.1	68R1	81Y	681	6810	81A	6.81k	6811	81B	68.1k	6812	81C	681k	6813	81D	6.81M	6814	81E
			69.8	69R8	82X	698	6980	82A	6.98k	6981	82B	69.8k	6982	82C	698k	6983	82D			
			71.5	71R5	83X	715	7150	83A	7.15k	7151	83B	71.5k	7152	83C	715k	7153	83D			
			73.2	73R2	84X	732	7320	84A	7.32k	7321	84B	73.2k	7322	84C	732k	7323	84D			
			75.0	75R0	85Y	750	7500	85A	7.50k	7501	85B	75.0k	7502	85C	750k	7503	85D	7.50M	7504	85E
			76.8	76R8	86X	768	7680	86A	7.68k	7681	86B	76.8k	7682	86C	768k	7683	86D			
			78.7	78R7	87X	787	7870	87A	7.87k	7871	87B	78.7k	7872	87C	787k	7873	87D			
			80.6	80R6	88X	806	8060	88A	8.06k	8061	88B	80.6k	8062	88C	806k	8063	88D			
			82.5	82R5	89Y	825	8250	89A	8.25k	8251	89B	82.5k	8252	89C	825k	8253	89D	8.25M	8254	89E
			84.5	84R5	90X	845	8450	90A	8.45k	8451	90B	84.5k	8452	90C	845k	8453	90D			
			86.6	86R6	91X	866	8660	91A	8.66k	8661	91B	86.6k	8662	91C	866k	8663	91D			
			88.7	88R7	92X	887	8870	92A	8.87k	8871	92B	88.7k	8872	92C	887k	8873	92D			
			90.9	90R9	93Y	909	9090	93A	9.09k	9091	93B	90.9k	9092	93C	909k	9093	93D	9.09M	9094	93E
			93.1	93R1	94X	931	9310	94A	9.31k	9311	94B	93.1k	9312	94C	931k	9313	94D	10M	1005	94E
			95.3	95R3	95X	953	9530	95A	9.53k	9531	95B	95.3k	9532	95C	953k	9533	95D	15M	1505	95E
			97.6	97R6	96X	976	9760	96A	9.76k	9761	96B	97.6k	9762	96C	976k	9763	96D	20M	2005	96E

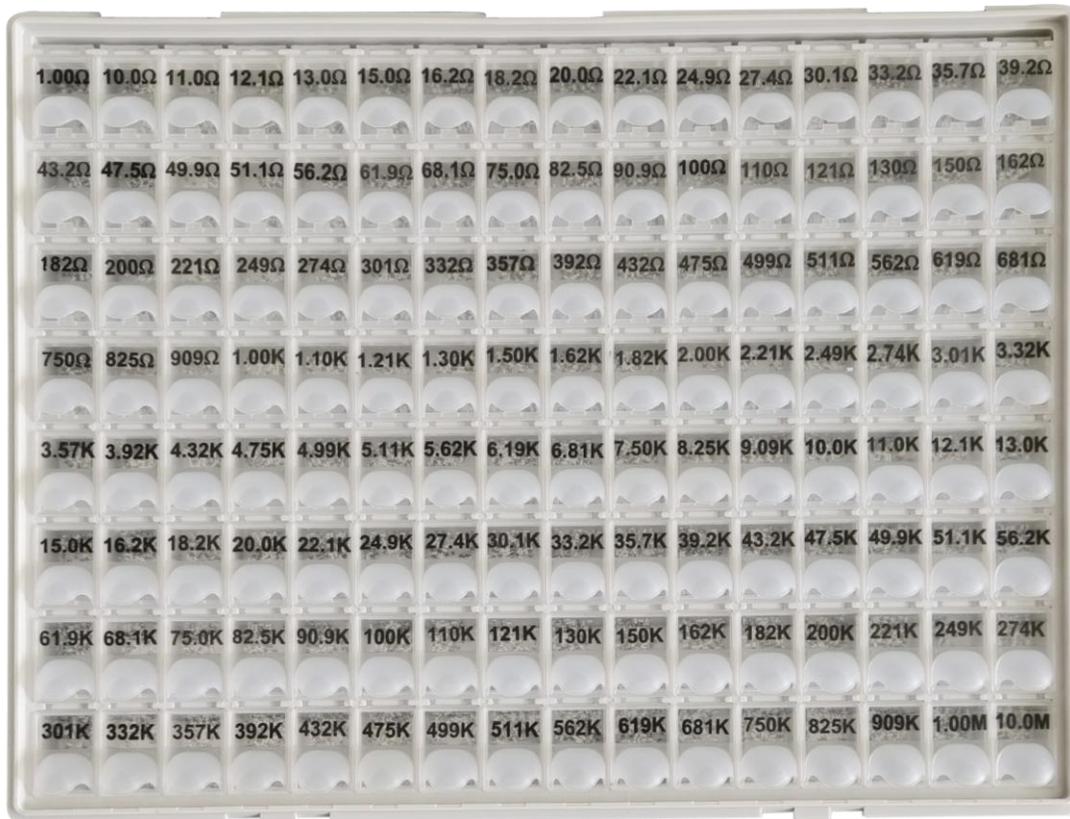


Figure 5. 128 Value Resistor Kit Bin Layout

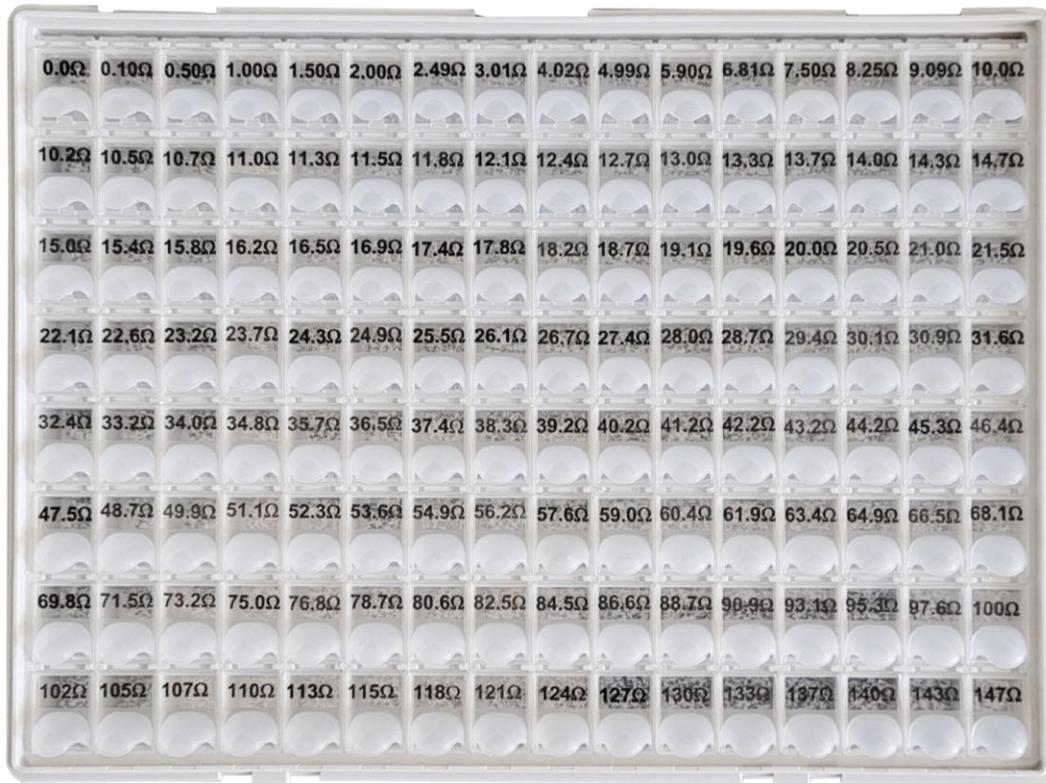


Figure 6. 510 Value Resistor Kit 4-1 Bin Layout

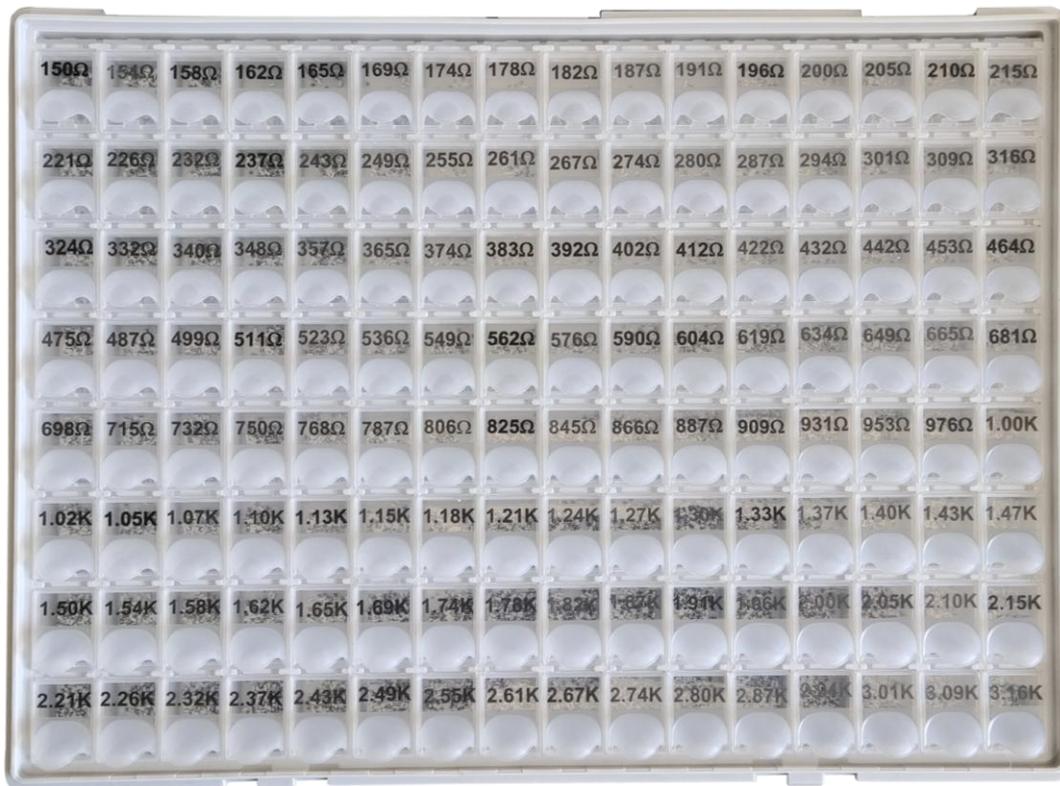


Figure 7. 510 Value Resistor Kit 4-2 Bin Layout

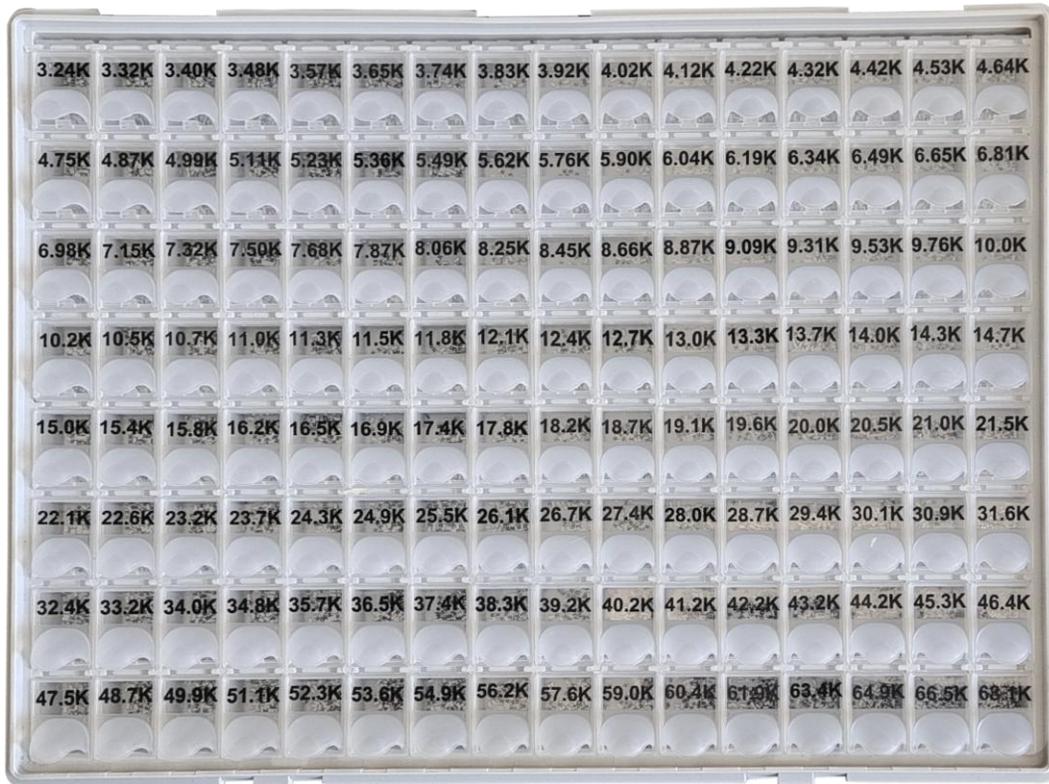


Figure 8. 510 Value Resistor Kit 4-3 Bin Layout

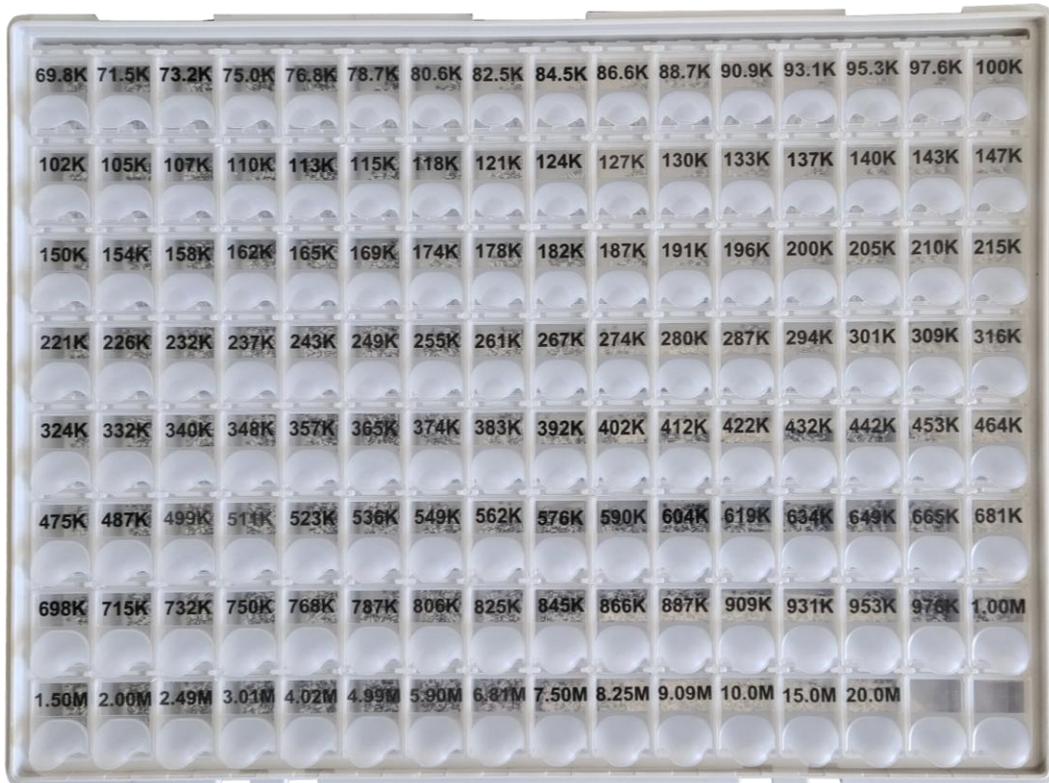


Figure 9. 510 Value Resistor Kit 4-4 Bin Layout

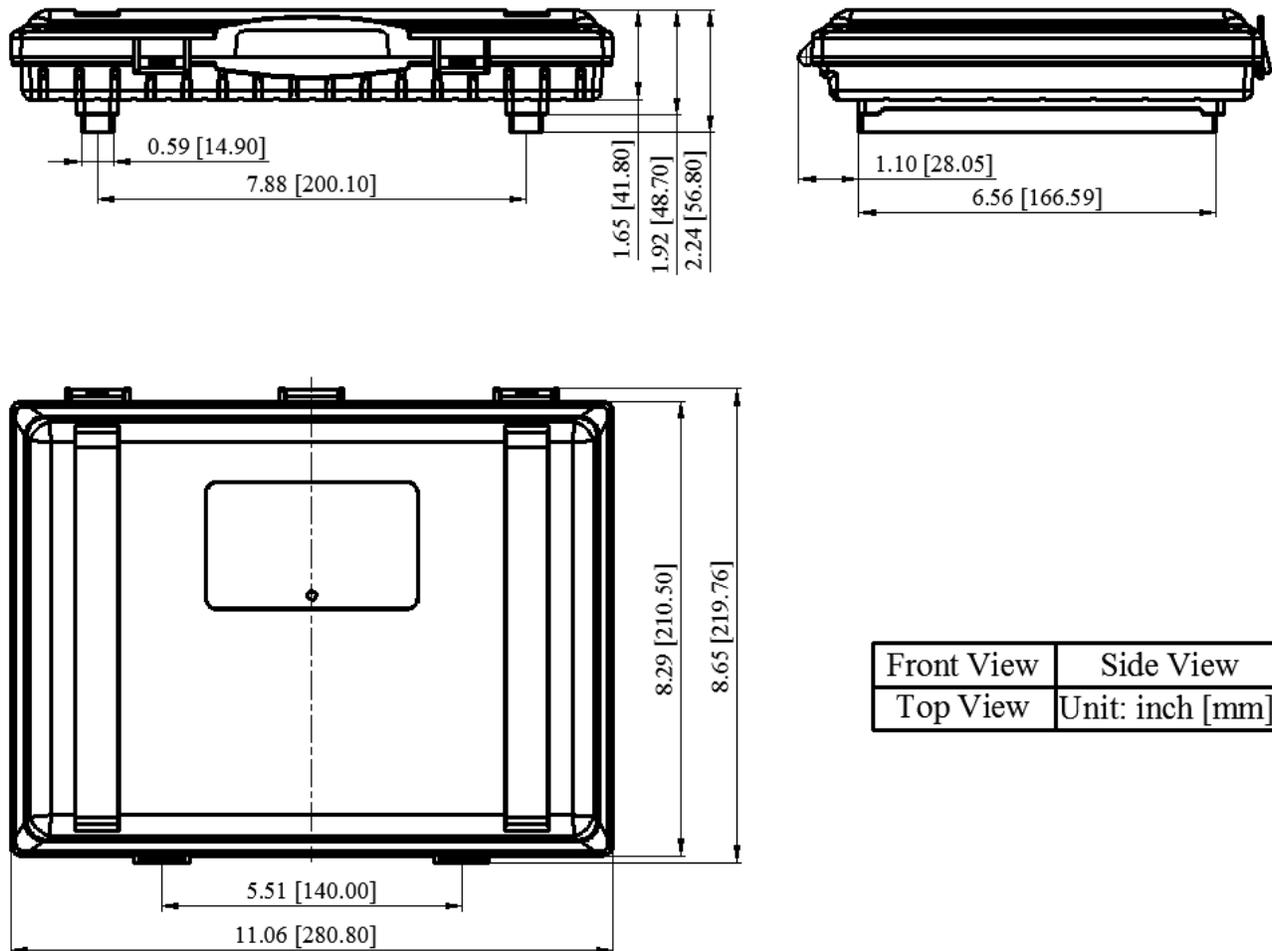
DIMENSIONS


Figure 10. Outlines Dimensions

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