## Appendix 2-1

## Typical Standard Resistor Values

10% Tolerance								
Ω	Ω	Ω	kΩ	kΩ	kΩ	MΩ	MΩ	
_	10	100	1	10	100	1		
_	12	120	1.2	12	120	1.2	10	
_	15	150	1.5	15	150	1.5	12	
_	18	180	1.8	18	180	1.8	15	
-	22	220	2.2	22	220	2.2	18 22	
2.7	27	270	2.7	27	270	2.7	22	
3.3	33	330	3.3	33	330	3.3	_	
3.9	39	390	3.9	39	390	3.9		
4.7	47	470	4.7	47	470	4.7		
5.6	56	560	5.6			5.6	_	
				56	560		_	
6.8	68	680	6.8	68	680	6.8	_	
8.2	82	820	8.2	82	820	8.2	_	

10%	To	era	nce
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Basi	Basic values above 10 ohms may be multiplied by any power of 10 e.g. x1, x10, x100, etc.								
1.00	6.04	11.0	20.0	36.5	66.5	121	221		
1.10	6.19	11.3	20.5	37.4	68.1	124	226		
1.21	6.34	11.5	21.0	38.3	69.8	127	232		
1.30	6.49	11.8	21.5	39.2	71.5	130	237		
1.50	6.65	12.1	22.1	40.2	73.2	133	243		
1.62	6.81	12.4	22.6	41.2	75.0	137	249		
1.82	6.98	12.7	23.2	42.2	76.8	140	255		
2.00	7.15	13.0	23.7	43.2	78.7	143	261		
2.21	7.32	13.3	24.3	44.2	80.6	147	267		
2.43	7.50	13.7	24.9	45.3	82.5	150	274		
2.67	7.68	14.0	25.5	46.4	84.5	154	280		
	7.87	14.3	26.1	47.5	86.6	158	287		
3.01		14.7	26.7	48.7	88.7	162	294		
3.32	8.06	15.0	27.4	49.9	90.9	165	301		
3.57 3.92	8.25 8.45	15.4	28.0	51.1	93.1	169	309		
			28.7	52.3	95.3	174	316		
4.32	8.66	15.8	29.4	53.6	97.6	178	324		
4.75	8.87	16.2		54.9	100	182	332		
4.99	9.09	16.5	30.1	56.2	102	187	340		
5.11	9.31	16.9	30.9	57.6	105	191	348		
5.23	9.53	17.4	31.6			196	357		
5.36	9.76	17.8	32.4	59.0	107	200	365		
5.49	10.0	18.2	33.2	60.4	110	205	374		
5.62	10.2	18.7	34.0	61.9	113	210	383		
5.76	10.5	19.1	34.8	63.4	115 118	215	392		
5.90	10.7	19.6	35.7	64.9	110	E ( U			

			5% To	olerance		2 110	2.50
		Ω	kΩ	kΩ	kΩ	МΩ	MΩ
Ω	Ω		- In to 1	10	10	1	10
-	10	100	1 1.1	10 11	110	1.1 1.2	11 12
	11 12	110 120	1.2	12 13	120 130	1.3	13
	13 15	130 150	1.3 1.5	15	150	1.5 1.6	15 16
	16	160	1.6 1.8	16 18	160 180	1.8	18
	18 20	180 200	2	20	200 220	2 2.2	20 22
	22 24	220 240	2.2 2.4	22 24	240	2.4 2.7	
2.7	27	270 300	2.7 3	27 30	270 300	3	
3 3.3	30 33	330	3.3	33 36	330 360	3.3 3.6	
3.6 3.9	36 39	360 390	3.6 3.9	39	390	3.9 4.3	
4.3	43	430 470	4.3 4.7	43 47	430 470	4.7	
4.7 5.1	47 51	510	5.1	51 56	510 560	5.1 5.6	
5.6 6.2	56 62	560 620	5.6 6.2	62	620	6.2 6.8	
6.8	68 75	680 750	6.8 7.5	68 75	680 750	7.5	
7.5 8.2	82	820	8.2	82	820 910	-8.2 9.1	
8.2 9.1	82 91	820 910	8.2 9.1	91 -	910	9.1	

Potentiometers							
Ω	Ω	kΩ	kΩ	kΩ	МΩ		
10	100	1	10	100	1		
20	200	2	20	200	2		
			25	250			
50	500	- 5	50	500			
				750			

## Appendix 2-2

## Typical Standard Capacitor Values

pF	pF	pF	pF	μF	μF	μF	μF	μF	μF	μF
5	50	500	5000	•	0.05	0.5	5	50	500	5000
_	51	510	5100		_	-	_	_	_	_
	56	560	5600		0.056	0.56	5.6	56	_	5600
_	_	_	6000		0.06		6			6000
_	62	620	6200			_	_	_	_	_
_	68	680	6800		0.068	0.68	6.8	_		_
	75	750	7500		_	_		75		_
_	_	_	8000		_	_	8	80	_	
_	82	820	8200		0.082	0.82	8.2	82	_	
	91	910	9100		_	_	_		_	·
10	100	1000		0.01	0.1	1	10	100	1000	10000
_	110	1100		_	_	_	_	_	_	10000
12	120	1200		0.012	0.12	1.2	_	_	_	
_	130	1300		_	_	_	_			•
15	150	1500		0.015	0.15	1.5	15	150	1500	
_	160	1600		_	_		_		_	
18	180	1800		0.018	0.18	1.8	18	180		
20	200	2000		0.02	0.2	2	20	200	2000	
22	220	2200		_	0.22	2.2	22	_	_	
24	240	2400		_	_		_	240	_	
~	250	2500		_	0.25	_	25	250	2500	
27	270	2700		0.027	0.27	2.7	27	270	_	
30	300	3000		0.03	0.3	3	30	300	3000	
33	330	3300		0.033	0.33	3.3	33	330	3300	
36	360	3600		_	_		_	_	_	
39	390	3900		0.039	0.39	3.9	39		_	
12		4000		0.04	_	4	_	400	_	
43 47	430	4300		-	_	_	_	_	_	
	470	4700		0.047	0.47	4.7	47	-	_	