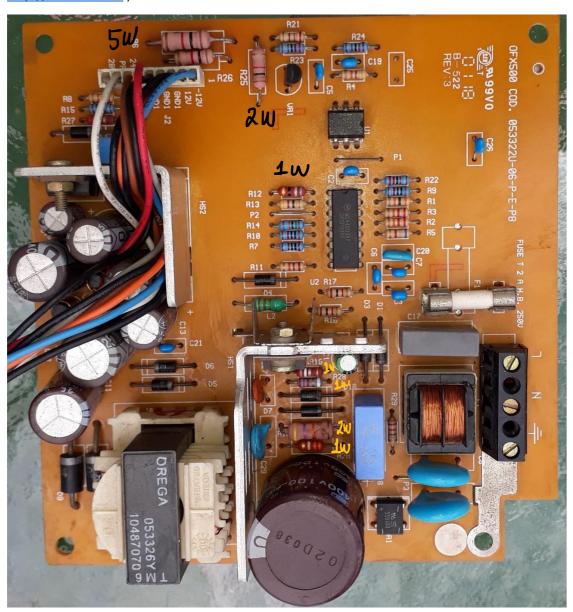
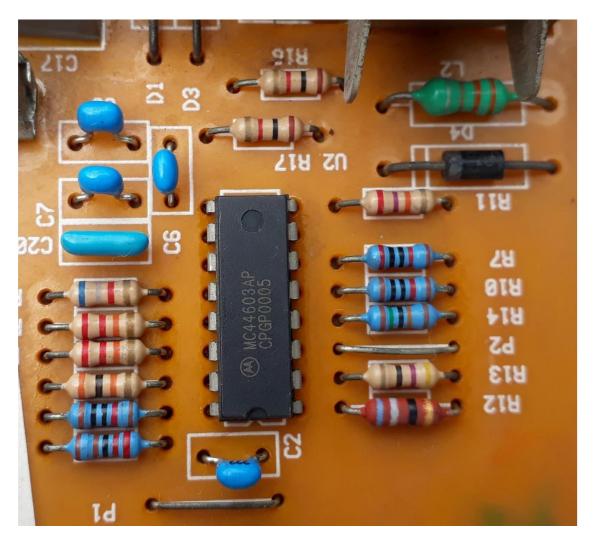
Laboratório de Circuitos Elétricos 2 de 07/12/2021

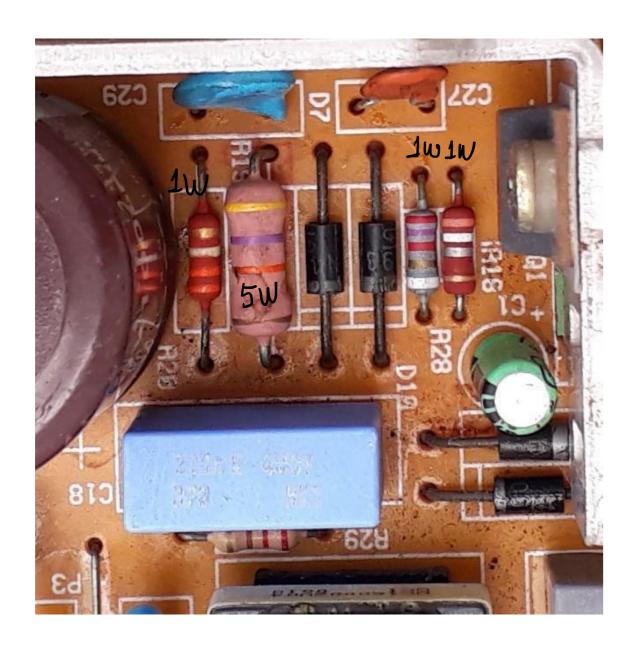
Atividade 1

Complete a tabela com os valores e tolerâncias dos resistores da PCI abaixo (em caso de dúvida, consulte o site: http://kiloohm.info).

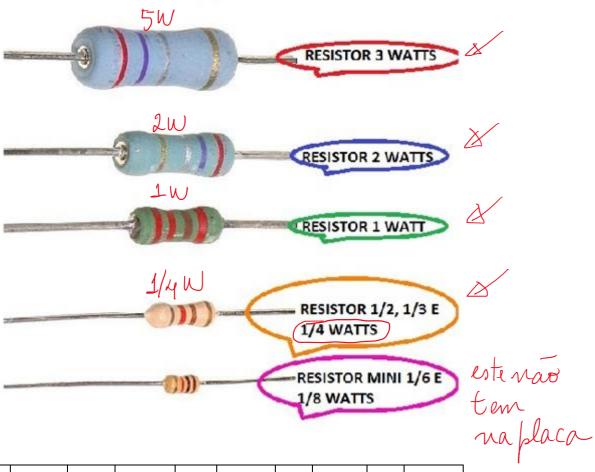








MODELOS DE RESISTORES COMERCIAL

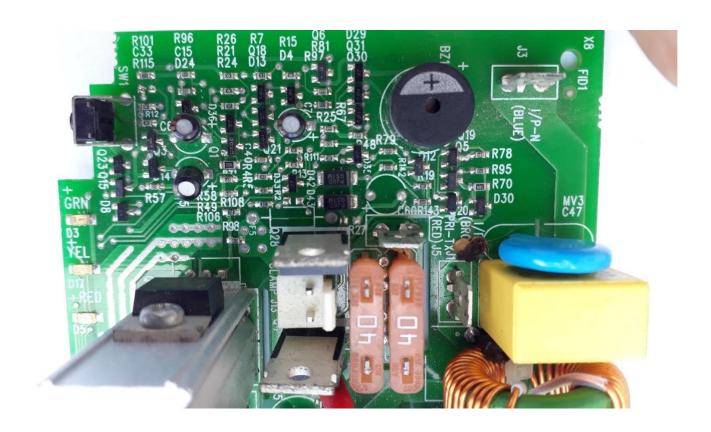


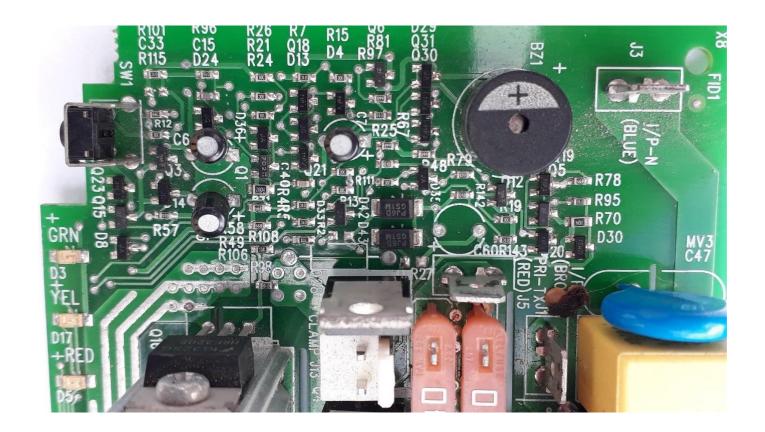
		Tol.	Potência			Tol.	Potência	,	Valor	Tol.	Potência
Ref.	Valor (Ω)	%	(W)	Ref.	Valor (Ω)	%	(W)	Ref.	(Ω)	%	(W)
R1				R11				R21			
R2				R12				R22			
R3				R13				R23			
R4				R14	XXXXXXX	XXX	XXXXX	R24			
R5				R15				R25			
R6				R16				R26			
R7				R17				R27			
R8				R18				R28			
R9				R19				R29			
R10				R20				R30			

Atividade 2

Acesse o site: http://kiloohm.info para consultar as tabelas de resistores SMD (formatos: 3 dígitos e 11A) e complete a tabela com os valores dos resistores SMD da PCI abaixo:

Ref.	Valor (Ω)	Código Marcado	Ref.	Valor (Ω)	Código Marcado	Ref.	Valor (Ω)	Código Marcado
R26	20kΩ	30C						





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Standard EIA-96 Values Table - decade 0.1 to 1 \Omega
                 02Z = 0.102 \Omega 03Z = 0.105 \Omega 04Z = 0.107 \Omega 05Z = 0.11 \Omega 06Z = 0.113 \Omega
 01Z = 0.1 \Omega
 07Z = 0.115 \Omega 08Z = 0.118 \Omega 09Z = 0.121 \Omega 10Z = 0.124 \Omega 11Z = 0.127 \Omega 12Z = 0.13 \Omega
 \underline{13Z} = 0.133 \ \underline{\Omega} \quad \underline{14Z} = 0.137 \ \underline{\Omega} \quad \underline{15Z} = 0.14 \ \underline{\Omega} \quad \underline{16Z} = 0.143 \ \underline{\Omega} \quad \underline{17Z} = 0.147 \ \underline{\Omega} \quad \underline{18Z} = 0.15 \ \underline{\Omega}
 \underline{19Z = 0.154 \ \Omega} \quad \underline{20Z = 0.158 \ \Omega} \quad \underline{21Z = 0.162 \ \Omega} \quad \underline{22Z = 0.165 \ \Omega} \quad \underline{23Z = 0.169 \ \Omega} \quad \underline{24Z = 0.174 \ \Omega}
 25Z = 0.178 \Omega 26Z = 0.182 \Omega 27Z = 0.187 \Omega 28Z = 0.191 \Omega 29Z = 0.196 \Omega 30Z = 0.2 \Omega
 31Z = 0.205 \Omega 32Z = 0.21 \Omega 33Z = 0.215 \Omega 34Z = 0.221 \Omega 35Z = 0.226 \Omega 36Z = 0.232 \Omega
 37Z = 0.237 \Omega 38Z = 0.243 \Omega 39Z = 0.249 \Omega 40Z = 0.255 \Omega 41Z = 0.261 \Omega 42Z = 0.267 \Omega
 43Z = 0.274 \Omega 44Z = 0.28 \Omega 45Z = 0.287 \Omega 46Z = 0.294 \Omega 47Z = 0.301 \Omega 48Z = 0.309 \Omega
 49Z = 0.316 \Omega 50Z = 0.324 \Omega 51Z = 0.332 \Omega 52Z = 0.34 \Omega 53Z = 0.348 \Omega 54Z = 0.357 \Omega
 \underline{55Z} = \underline{0.365 \ \Omega} \quad \underline{56Z} = \underline{0.374 \ \Omega} \quad \underline{57Z} = \underline{0.383 \ \Omega} \quad \underline{58Z} = \underline{0.392 \ \Omega} \quad \underline{59Z} = \underline{0.402 \ \Omega} \quad \underline{60Z} = \underline{0.412 \ \Omega}
 61Z = 0.422 \Omega 62Z = 0.432 \Omega 63Z = 0.442 \Omega 64Z = 0.453 \Omega 65Z = 0.464 \Omega 66Z = 0.475 \Omega
 67Z = 0.487 \Omega 68Z = 0.499 \Omega 69Z = 0.511 \Omega 70Z = 0.523 \Omega 71Z = 0.536 \Omega 72Z = 0.549 \Omega
 73Z = 0.562 \Omega 74Z = 0.576 \Omega 75Z = 0.59 \Omega 76Z = 0.604 \Omega 77Z = 0.619 \Omega 78Z = 0.634 \Omega
 79Z = 0.649 \Omega 80Z = 0.665 \Omega 81Z = 0.681 \Omega 82Z = 0.698 \Omega 83Z = 0.715 \Omega 84Z = 0.732 \Omega
 85Z = 0.75 \Omega 86Z = 0.768 \Omega 87Z = 0.787 \Omega 88Z = 0.806 \Omega 89Z = 0.825 \Omega 90Z = 0.845 \Omega
 91Z = 0.866 \Omega 92Z = 0.887 \Omega 93Z = 0.909 \Omega 94Z = 0.931 \Omega 95Z = 0.953 \Omega 96Z = 0.976 \Omega
Standard EIA-96 Values Table - decade 1 to 10 \Omega
                    02Y = 1.02 \Omega 03Y = 1.05 \Omega 04Y = 1.07 \Omega 05Y = 1.1 \Omega 06Y = 1.13 \Omega
 01Y = 1 \Omega
 07Y = 1.15 \Omega 08Y = 1.18 \Omega 09Y = 1.21 \Omega 10Y = 1.24 \Omega 11Y = 1.27 \Omega 12Y = 1.3 \Omega
 13Y = 1.33 \Omega 14Y = 1.37 \Omega 15Y = 1.4 \Omega 16Y = 1.43 \Omega 17Y = 1.47 \Omega 18Y = 1.5 \Omega
 19Y = 1.54 \Omega 20Y = 1.58 \Omega 21Y = 1.62 \Omega 22Y = 1.65 \Omega 23Y = 1.69 \Omega 24Y = 1.74 \Omega
 25Y = 1.78 \Omega 26Y = 1.82 \Omega 27Y = 1.87 \Omega 28Y = 1.91 \Omega 29Y = 1.96 \Omega 30Y = 2 \Omega
 31Y = 2.05 \Omega 32Y = 2.1 \Omega 33Y = 2.15 \Omega 34Y = 2.21 \Omega 35Y = 2.26 \Omega 36Y = 2.32 \Omega
 37Y = 2.37 \Omega 38Y = 2.43 \Omega 39Y = 2.49 \Omega 40Y = 2.55 \Omega 41Y = 2.61 \Omega 42Y = 2.67 \Omega
 43Y = 2.74 \Omega 44Y = 2.8 \Omega 45Y = 2.87 \Omega 46Y = 2.94 \Omega 47Y = 3.01 \Omega 48Y = 3.09 \Omega
 49Y = 3.16 \Omega 50Y = 3.24 \Omega 51Y = 3.32 \Omega 52Y = 3.4 \Omega 53Y = 3.48 \Omega 54Y = 3.57 \Omega
 55Y = 3.65 \Omega 56Y = 3.74 \Omega 57Y = 3.83 \Omega 58Y = 3.92 \Omega 59Y = 4.02 \Omega 60Y = 4.12 \Omega
 61Y = 4.22 \Omega 62Y = 4.32 \Omega 63Y = 4.42 \Omega 64Y = 4.53 \Omega 65Y = 4.64 \Omega 66Y = 4.75 \Omega
 67Y = 4.87 \Omega 68Y = 4.99 \Omega 69Y = 5.11 \Omega 70Y = 5.23 \Omega 71Y = 5.36 \Omega 72Y = 5.49 \Omega
 73Y = 5.62 \Omega 74Y = 5.76 \Omega 75Y = 5.9 \Omega 76Y = 6.04 \Omega 77Y = 6.19 \Omega 78Y = 6.34 \Omega
 79Y = 6.49 \Omega 80Y = 6.65 \Omega 81Y = 6.81 \Omega 82Y = 6.98 \Omega 83Y = 7.15 \Omega 84Y = 7.32 \Omega
 85Y = 7.5 \Omega 86Y = 7.68 \Omega 87Y = 7.87 \Omega 88Y = 8.06 \Omega 89Y = 8.25 \Omega 90Y = 8.45 \Omega
 91Y = 8.66 \Omega 92Y = 8.87 \Omega 93Y = 9.09 \Omega 94Y = 9.31 \Omega 95Y = 9.53 \Omega 96Y = 9.76 \Omega
Standard EIA-96 Values Table - decade 10 to 100 \Omega
01X = 10 Ω 02X = 10.2 Ω 03X = 10.5 Ω 04X = 10.7 Ω 05X = 11 Ω
                                                                                                     06X = 11.3 \Omega
 07X = 11.5 \Omega 08X = 11.8 \Omega 09X = 12.1 \Omega 10X = 12.4 \Omega 11X = 12.7 \Omega 12X = 13 \Omega
 13X = 13.3 Ω 14X = 13.7 Ω 15X = 14 Ω 16X = 14.3 Ω 17X = 14.7 Ω 18X = 15 Ω
 19X = 15.4 \Omega 20X = 15.8 \Omega 21X = 16.2 \Omega 22X = 16.5 \Omega 23X = 16.9 \Omega 24X = 17.4 \Omega
 25X = 17.8 \Omega 26X = 18.2 \Omega 27X = 18.7 \Omega 28X = 19.1 \Omega 29X = 19.6 \Omega 30X = 20 \Omega
 31X = 20.5 \Omega 32X = 21 \Omega 33X = 21.5 \Omega 34X = 22.1 \Omega 35X = 22.6 \Omega 36X = 23.2 \Omega
 37X = 23.7 \Omega 38X = 24.3 \Omega 39X = 24.9 \Omega 40X = 25.5 \Omega 41X = 26.1 \Omega 42X = 26.7 \Omega
 43X = 27.4 \Omega 44X = 28 \Omega 45X = 28.7 \Omega 46X = 29.4 \Omega 47X = 30.1 \Omega 48X = 30.9 \Omega
 49X = 31.6 \Omega 50X = 32.4 \Omega 51X = 33.2 \Omega 52X = 34 \Omega 53X = 34.8 \Omega 54X = 35.7 \Omega
 55X = 36.5 \Omega 56X = 37.4 \Omega 57X = 38.3 \Omega 58X = 39.2 \Omega 59X = 40.2 \Omega 60X = 41.2 \Omega
 61X = 42.2 \Omega 62X = 43.2 \Omega 63X = 44.2 \Omega 64X = 45.3 \Omega 65X = 46.4 \Omega 66X = 47.5 \Omega
 67X = 48.7 \Omega 68X = 49.9 \Omega 69X = 51.1 \Omega 70X = 52.3 \Omega 71X = 53.6 \Omega 72X = 54.9 \Omega
 73X = 56.2 \Omega 74X = 57.6 \Omega 75X = 59 \Omega 76X = 60.4 \Omega 77X = 61.9 \Omega 78X = 63.4 \Omega
 79X = 64.9 \Omega 80X = 66.5 \Omega 81X = 68.1 \Omega 82X = 69.8 \Omega 83X = 71.5 \Omega 84X = 73.2 \Omega
 85X = 75 \Omega
                    86X = 76.8 \Omega 87X = 78.7 \Omega 88X = 80.6 \Omega 89X = 82.5 \Omega 90X = 84.5 \Omega
 91X = 86.6 \Omega 92X = 88.7 \Omega 93X = 90.9 \Omega 94X = 93.1 \Omega 95X = 95.3 \Omega 96X = 97.6 \Omega
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Standard EIA-96 Values Table - decade 100 to 1000 Ω $01A = 100 \Omega$ $02A = 102 \Omega$ $03A = 105 \Omega$ $04A = 107 \Omega$ $05A = 110 \Omega$ $06A = 113 \Omega$ $07A = 115 \Omega$ $08A = 118 \Omega$ $09A = 121 \Omega$ $10A = 124 \Omega$ $11A = 127 \Omega$ $12A = 130 \Omega$ 13A = 133 Ω 14A = 137 Ω 15A = 140 Ω 16A = 143 Ω 17A = 147 Ω 18A = 150 Ω19A = 154 Ω 20A = 158 Ω 21A = 162 Ω 22A = 165 Ω 23A = 169 Ω 24A = 174 Ω $25A = 178 \Omega$ $26A = 182 \Omega$ $27A = 187 \Omega$ $28A = 191 \Omega$ $29A = 196 \Omega$ $30A = 200 \Omega$ $31A = 205 \Omega$ $32A = 210 \Omega$ $33A = 215 \Omega$ $34A = 221 \Omega$ $35A = 226 \Omega$ $36A = 232 \Omega$ $37A = 237 \Omega$ $38A = 243 \Omega$ $39A = 249 \Omega$ $40A = 255 \Omega$ $41A = 261 \Omega$ $42A = 267 \Omega$ $43A = 274 \Omega$ $44A = 280 \Omega$ $45A = 287 \Omega$ $46A = 294 \Omega$ $47A = 301 \Omega$ $48A = 309 \Omega$ 49A = 316 Ω 50A = 324 Ω 51A = 332 Ω 52A = 340 Ω 53A = 348 Ω 54A = 357 Ω $55A = 365 \Omega$ $56A = 374 \Omega$ $57A = 383 \Omega$ $58A = 392 \Omega$ $59A = 402 \Omega$ $60A = 412 \Omega$ $61A = 422 \Omega$ $62A = 432 \Omega$ $63A = 442 \Omega$ $64A = 453 \Omega$ $65A = 464 \Omega$ $66A = 475 \Omega$ $67A = 487 \Omega$ $68A = 499 \Omega$ $69A = 511 \Omega$ $70A = 523 \Omega$ $71A = 536 \Omega$ $72A = 549 \Omega$ $73A = 562 \Omega$ $74A = 576 \Omega$ $75A = 590 \Omega$ $76A = 604 \Omega$ $77A = 619 \Omega$ $78A = 634 \Omega$ $79A = 649 \Omega$ $80A = 665 \Omega$ $81A = 681 \Omega$ $82A = 698 \Omega$ $83A = 715 \Omega$ $84A = 732 \Omega$ $85A = 750 \Omega$ $86A = 768 \Omega$ $87A = 787 \Omega$ $88A = 806 \Omega$ $89A = 825 \Omega$ $90A = 845 \Omega$ $91A = 866 \Omega$ $92A = 887 \Omega$ $93A = 909 \Omega$ $94A = 931 \Omega$ $95A = 953 \Omega$ $96A = 976 \Omega$

Standard EIA-96 Values Table - decade 1 to 10 $k\Omega$

 $02B = 1.02 \text{ k}\Omega$ $03B = 1.05 \text{ k}\Omega$ $04B = 1.07 \text{ k}\Omega$ $05B = 1.1 \text{ k}\Omega$ $06B = 1.13 \text{ k}\Omega$ $01B = 1 k\Omega$ $07B = 1.15 \text{ k}\Omega$ $08B = 1.18 \text{ k}\Omega$ $09B = 1.21 \text{ k}\Omega$ $10B = 1.24 \text{ k}\Omega$ $11B = 1.27 \text{ k}\Omega$ $12B = 1.3 \text{ k}\Omega$ $25B = 1.78 \text{ k}\Omega$ $26B = 1.82 \text{ k}\Omega$ $27B = 1.87 \text{ k}\Omega$ $28B = 1.91 \text{ k}\Omega$ $29B = 1.96 \text{ k}\Omega$ $30B = 2 \text{ k}\Omega$ $31B = 2.05 \text{ k}\Omega$ $32B = 2.1 \text{ k}\Omega$ $33B = 2.15 \text{ k}\Omega$ $34B = 2.21 \text{ k}\Omega$ $35B = 2.26 \text{ k}\Omega$ $36B = 2.32 \text{ k}\Omega$ $37B = 2.37 \text{ k}\Omega$ $38B = 2.43 \text{ k}\Omega$ $39B = 2.49 \text{ k}\Omega$ $40B = 2.55 \text{ k}\Omega$ $41B = 2.61 \text{ k}\Omega$ $42B = 2.67 \text{ k}\Omega$ $43B = 2.74 \text{ k}\Omega$ $44B = 2.8 \text{ k}\Omega$ $45B = 2.87 \text{ k}\Omega$ $46B = 2.94 \text{ k}\Omega$ $47B = 3.01 \text{ k}\Omega$ $48B = 3.09 \text{ k}\Omega$ $49B = 3.16 \text{ k}\Omega$ $50B = 3.24 \text{ k}\Omega$ $51B = 3.32 \text{ k}\Omega$ $52B = 3.4 \text{ k}\Omega$ $53B = 3.48 \text{ k}\Omega$ $54B = 3.57 \text{ k}\Omega$ $55B = 3.65 \text{ k}\Omega$ $56B = 3.74 \text{ k}\Omega$ $57B = 3.83 \text{ k}\Omega$ $58B = 3.92 \text{ k}\Omega$ $59B = 4.02 \text{ k}\Omega$ $60B = 4.12 \text{ k}\Omega$ $61B = 4.22 \text{ k}\Omega$ $62B = 4.32 \text{ k}\Omega$ $63B = 4.42 \text{ k}\Omega$ $64B = 4.53 \text{ k}\Omega$ $65B = 4.64 \text{ k}\Omega$ $66B = 4.75 \text{ k}\Omega$ $\underline{67B} = \underline{4.87 \text{ k}\Omega} \quad \underline{68B} = \underline{4.99 \text{ k}\Omega} \quad \underline{69B} = \underline{5.11 \text{ k}\Omega} \quad \underline{70B} = \underline{5.23 \text{ k}\Omega} \quad \underline{71B} = \underline{5.36 \text{ k}\Omega} \quad \underline{72B} = \underline{5.49 \text{ k}\Omega}$ $\underline{73B = 5.62 \ k\Omega} \quad \underline{74B = 5.76 \ k\Omega} \quad \underline{75B = 5.9 \ k\Omega} \quad \underline{76B = 6.04 \ k\Omega} \quad \underline{77B = 6.19 \ k\Omega} \quad \underline{78B = 6.34 \ k\Omega}$ 79B = 6.49 kΩ 80B = 6.65 kΩ 81B = 6.81 kΩ 82B = 6.98 kΩ 83B = 7.15 kΩ 84B = 7.32 kΩ $85B = 7.5 \text{ k}\Omega$ $86B = 7.68 \text{ k}\Omega$ $87B = 7.87 \text{ k}\Omega$ $88B = 8.06 \text{ k}\Omega$ $89B = 8.25 \text{ k}\Omega$ $90B = 8.45 \text{ k}\Omega$ $91B = 8.66 \text{ k}\Omega$ $92B = 8.87 \text{ k}\Omega$ $93B = 9.09 \text{ k}\Omega$ $94B = 9.31 \text{ k}\Omega$ $95B = 9.53 \text{ k}\Omega$ $96B = 9.76 \text{ k}\Omega$

Standard EIA-96 Values Table - decade 10 to 100 $k\Omega$

 $01C = 10 \text{ k}\Omega$ $02C = 10.2 \text{ k}\Omega$ $03C = 10.5 \text{ k}\Omega$ $04C = 10.7 \text{ k}\Omega$ $05C = 11 \text{ k}\Omega$ $06C = 11.3 \text{ k}\Omega$ $07C = 11.5 \text{ k}\Omega$ $08C = 11.8 \text{ k}\Omega$ $09C = 12.1 \text{ k}\Omega$ $10C = 12.4 \text{ k}\Omega$ $11C = 12.7 \text{ k}\Omega$ $12C = 13 \text{ k}\Omega$ $\underline{13C = 13.3 \text{ k}\Omega} \quad \underline{14C = 13.7 \text{ k}\Omega} \quad \underline{15C = 14 \text{ k}\Omega} \quad \underline{16C = 14.3 \text{ k}\Omega} \quad \underline{17C = 14.7 \text{ k}\Omega} \quad \underline{18C = 15 \text{ k}\Omega}$ $19C = 15.4 \text{ k}\Omega$ $20C = 15.8 \text{ k}\Omega$ $21C = 16.2 \text{ k}\Omega$ $22C = 16.5 \text{ k}\Omega$ $23C = 16.9 \text{ k}\Omega$ $24C = 17.4 \text{ k}\Omega$ $25C = 17.8 \text{ k}\Omega$ $26C = 18.2 \text{ k}\Omega$ $27C = 18.7 \text{ k}\Omega$ $28C = 19.1 \text{ k}\Omega$ $29C = 19.6 \text{ k}\Omega$ $30C = 20 \text{ k}\Omega$ 31C = 20.5 kΩ 32C = 21 kΩ $33C = 21.5 \text{ k}\Omega$ $34C = 22.1 \text{ k}\Omega$ $35C = 22.6 \text{ k}\Omega$ $36C = 23.2 \text{ k}\Omega$ $37C = 23.7 \text{ k}\Omega$ $38C = 24.3 \text{ k}\Omega$ $39C = 24.9 \text{ k}\Omega$ $40C = 25.5 \text{ k}\Omega$ $41C = 26.1 \text{ k}\Omega$ $42C = 26.7 \text{ k}\Omega$ $43C = 27.4 \text{ k}\Omega$ $44C = 28 \text{ k}\Omega$ $45C = 28.7 \text{ k}\Omega$ $46C = 29.4 \text{ k}\Omega$ $47C = 30.1 \text{ k}\Omega$ $48C = 30.9 \text{ k}\Omega$ $49C = 31.6 \text{ k}\Omega$ $50C = 32.4 \text{ k}\Omega$ $51C = 33.2 \text{ k}\Omega$ $52C = 34 \text{ k}\Omega$ $53C = 34.8 \text{ k}\Omega$ $54C = 35.7 \text{ k}\Omega$ $55C = 36.5 \text{ k}\Omega$ $56C = 37.4 \text{ k}\Omega$ $57C = 38.3 \text{ k}\Omega$ $58C = 39.2 \text{ k}\Omega$ $59C = 40.2 \text{ k}\Omega$ $60C = 41.2 \text{ k}\Omega$ $61C = 42.2 \text{ k}\Omega$ $62C = 43.2 \text{ k}\Omega$ $63C = 44.2 \text{ k}\Omega$ $64C = 45.3 \text{ k}\Omega$ $65C = 46.4 \text{ k}\Omega$ $66C = 47.5 \text{ k}\Omega$ $67C = 48.7 \text{ k}\Omega$ $68C = 49.9 \text{ k}\Omega$ $69C = 51.1 \text{ k}\Omega$ $70C = 52.3 \text{ k}\Omega$ $71C = 53.6 \text{ k}\Omega$ $72C = 54.9 \text{ k}\Omega$ $\underline{73C = 56.2 \text{ k}\Omega} \quad \underline{74C = 57.6 \text{ k}\Omega} \quad \underline{75C = 59 \text{ k}\Omega} \quad \underline{76C = 60.4 \text{ k}\Omega} \quad \underline{77C = 61.9 \text{ k}\Omega} \quad \underline{78C = 63.4 \text{ k}\Omega}$ $79C = 64.9 \text{ k}\Omega$ $80C = 66.5 \text{ k}\Omega$ $81C = 68.1 \text{ k}\Omega$ $82C = 69.8 \text{ k}\Omega$ $83C = 71.5 \text{ k}\Omega$ $84C = 73.2 \text{ k}\Omega$ 85C = 75 kΩ $86C = 76.8 \text{ k}\Omega$ $87C = 78.7 \text{ k}\Omega$ $88C = 80.6 \text{ k}\Omega$ $89C = 82.5 \text{ k}\Omega$ $90C = 84.5 \text{ k}\Omega$ $91C = 86.6 \text{ k}\Omega$ $92C = 88.7 \text{ k}\Omega$ $93C = 90.9 \text{ k}\Omega$ $94C = 93.1 \text{ k}\Omega$ $95C = 95.3 \text{ k}\Omega$ $96C = 97.6 \text{ k}\Omega$

Standard EIA-96 Values Table - decade 100 to 1000 $k\Omega$

$01D = 100 \text{ k}\Omega$	02D = 102 kΩ	03D = 105 kΩ	04D = 107 kΩ	05D = 110 kΩ	06D = 113 kΩ	
07D = 115 kΩ	08D = 118 kΩ	09D = 121 kΩ	10D = 124 kΩ	11D = 127 kΩ	12D = 130 kΩ	
13D = 133 kΩ	14D = 137 kΩ	15D = 140 kΩ	16D = 143 kΩ	17D = 147 kΩ	18D = 150 kΩ	
19D = 154 kΩ	20D = 158 kΩ	21D = 162 kΩ	22D = 165 kΩ	23D = 169 kΩ	24D = 174 kΩ	
25D = 178 kΩ	26D = 182 kΩ	27D = 187 kΩ	28D = 191 kΩ	29D = 196 kΩ	30D = 200 kΩ	
31D = 205 kΩ	32D = 210 kΩ	33D = 215 kΩ	34D = 221 kΩ	35D = 226 kΩ	36D = 232 kΩ	
37D = 237 kΩ	38D = 243 kΩ	39D = 249 kΩ	40D = 255 kΩ	41D = 261 kΩ	42D = 267 kΩ	
43D = 274 kΩ	44D = 280 kΩ	45D = 287 kΩ	46D = 294 kΩ	47D = 301 kΩ	48D = 309 kΩ	
49D = 316 kΩ	50D = 324 kΩ	51D = 332 kΩ	52D = 340 kΩ	53D = 348 kΩ	54D = 357 kΩ	
55D = 365 kΩ	56D = 374 kΩ	57D = 383 kΩ	58D = 392 kΩ	59D = 402 kΩ	60D = 412 kΩ	
61D = 422 kΩ	62D = 432 kΩ	$63D = 442 \text{ k}\Omega$	64D = 453 kΩ	65D = 464 kΩ	66D = 475 kΩ	
67D = 487 kΩ	68D = 499 kΩ	69D = 511 kΩ	70D = 523 kΩ	71D = 536 kΩ	72D = 549 kΩ	
73D = 562 kΩ	74D = 576 kΩ	75D = 590 kΩ	76D = 604 kΩ	77D = 619 kΩ	78D = 634 kΩ	
79D = 649 kΩ	80D = 665 kΩ	$81D = 681 \text{ k}\Omega$	82D = 698 kΩ	83D = 715 kΩ	84D = 732 kΩ	
85D = 750 kΩ	86D = 768 kΩ	87D = 787 kΩ	88D = 806 kΩ	89D = 825 kΩ	90D = 845 kΩ	
91D = 866 kΩ	92D = 887 kΩ	93D = 909 kΩ	94D = 931 kΩ	95D = 953 kΩ	96D = 976 kΩ	