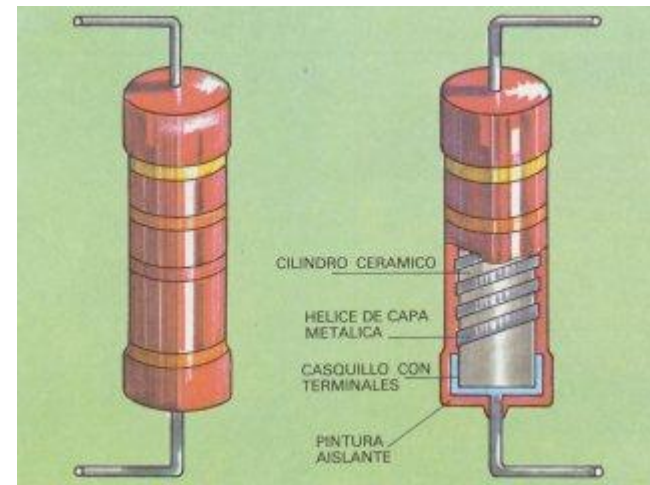
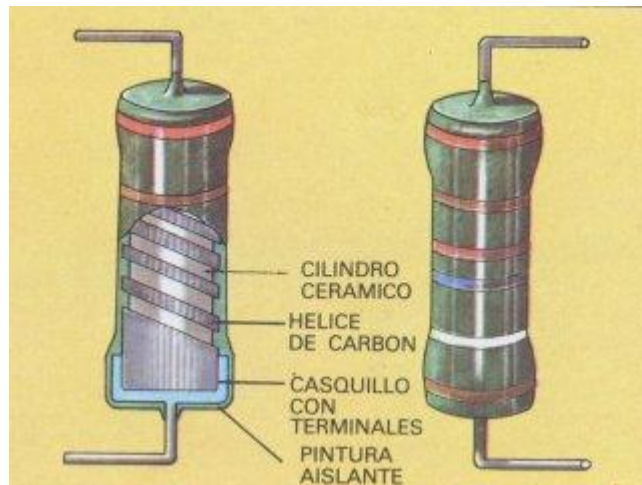


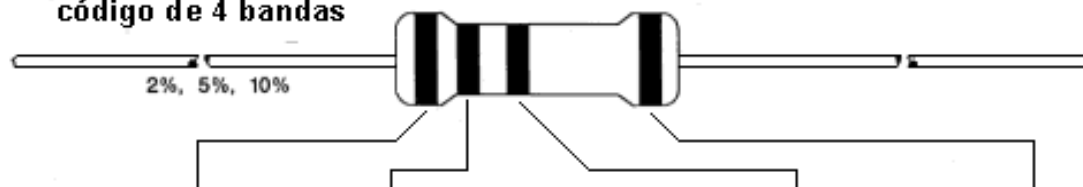
Resistencias

Construcción interna

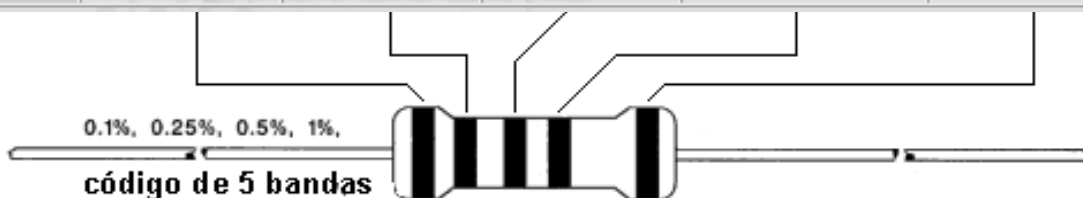


Colores de Resistencias

código de 4 bandas



Color	1ª Banda	2ª Banda	3ª Banda	Multiplicador	Tolerancia
Negro	0	0	0	1ohm	
Marrón	1	1	1	10ohm	+1% (F)
Rojo	2	2	2	100ohm	+2% (G)
Naranja	3	3	3	1Kohm	
Amarillo	4	4	4	10Kohm	
Verde	5	5	5	100Kohm	S2 +0 5% (D)
Azul	6	6	6	1Mohm	+0.25% (C)
Violeta	7	7	7	10Mohm	+0.10% (B)
Gris	8	8	8		+0.05%
Blanco	9	9	9		
Oro				0.10	+5% (J)
Plata				0.01	+10% (K)



Rango de valores típicos

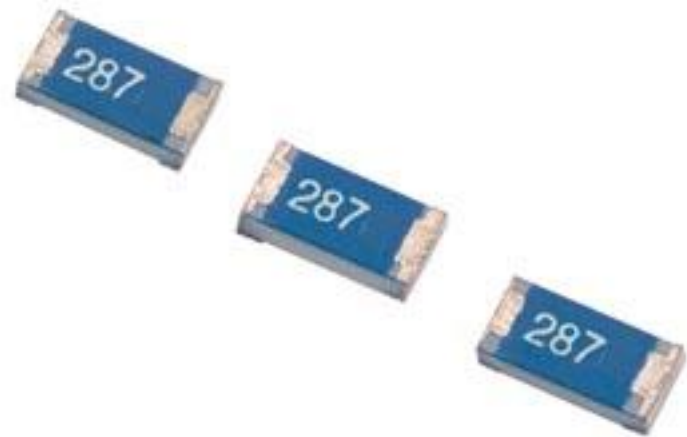
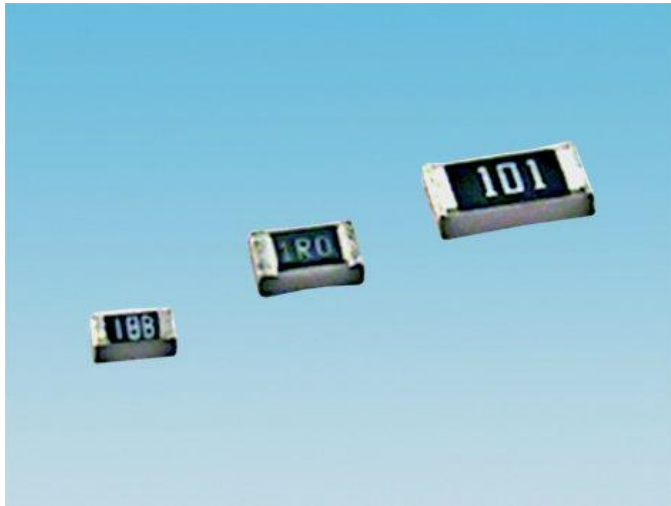
1 Ω	10 Ω	100 Ω	1 k	10 k	100k	1 M	10 M
1.2 Ω	12 Ω	120 Ω	1k2	12 k	120k	1M2	—
1.5 Ω	15 Ω	150 Ω	1k5	15 k	150k	1M5	—
1.8 Ω	18 Ω	180 Ω	1k8	18 k	180k	1M8	—
2.2 Ω	22 Ω	220 Ω	2k2	22 k	220k	2M2	—
2.7 Ω	27 Ω	270 Ω	2k7	27 k	270k	2M7	—
3.3 Ω	33 Ω	330 Ω	3k3	33 k	330k	3M3	—
3.9 Ω	39 Ω	390 Ω	3k9	39 k	390k	3M9	—
4.7 Ω	47 Ω	470 Ω	4k7	47 k	470k	4M7	—
5.6 Ω	56 Ω	560 Ω	5k6	56 k	560k	5M6	—
6.8 Ω	68 Ω	680 Ω	6k8	68 k	680k	6M8	—
8.2 Ω	82 Ω	820 Ω	8k2	82 k	820k	8M2	—

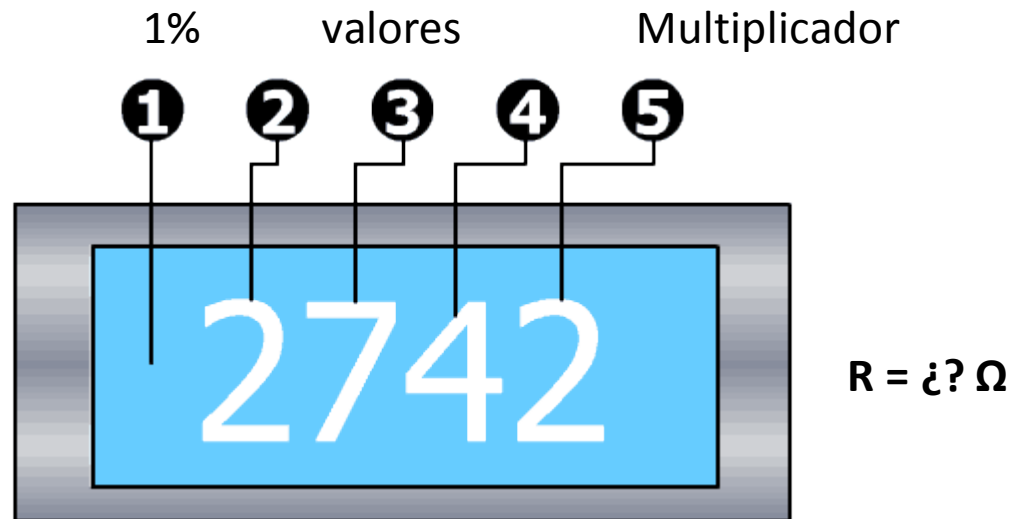
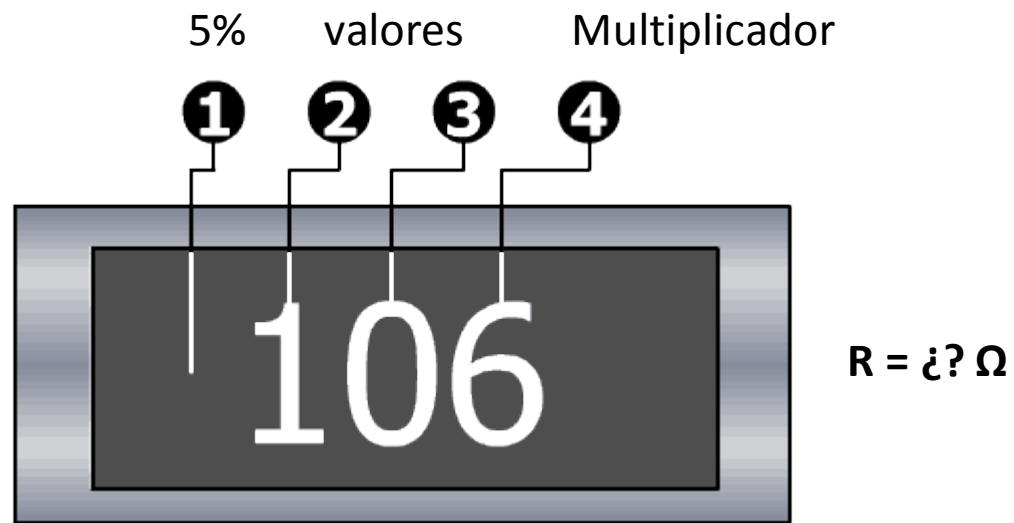
Valores normalizados de los resistores para diferentes tolerancias														
20%	1.00 1.50 2.20 3.30 4.70 6.80													
10%	1.00 1.20 1.50 1.80 2.20 2.70 3.30 3.90 4.70 5.60 6.80 8.20													
5%	1.00 1.10 1.20 1.30 1.50 1.60 1.80 2.00 2.20 2.40 2.70 3.00 3.30 3.60 3.90 4.30 4.70 5.10 5.60 6.20 6.80 7.50 8.20 9.10													
2%	1.00 1.05 1.10 1.15 1.21 1.27 1.33 1.40 1.47 1.54 1.62 1.69 1.78 1.87 1.96 2.05 2.15 2.26 2.37 2.49 2.61 2.74 2.87 3.01 3.16 3.32 3.48 3.65 3.83 4.02 4.22 4.42 4.64 4.87 5.11 5.36 5.62 5.90 6.19 6.49 6.81 7.15 7.50 7.87 8.25 8.66 9.09 9.53													
1%	1.00 1.02 1.05 1.07 1.10 1.13 1.15 1.18 1.21 1.24 1.27 1.30 1.33 1.37 1.40 1.43 1.47 1.50 1.54 1.58 1.62 1.65 1.69 1.74 1.78 1.82 1.87 1.91 1.96 2.00 2.05 2.10 2.15 2.21 2.26 2.32 2.37 2.43 2.49 2.55 2.61 2.67 2.74 2.80 2.87 2.94 3.01 3.09 3.16 3.24 3.32 3.40 3.48 3.57 3.65 3.74 3.83 3.92 4.02 4.12 4.22 4.32 4.42 4.53 4.64 4.75 4.87 4.99 5.11 5.23 5.36 5.49 5.62 5.76 5.90 6.04 6.19 6.34 6.49 6.65 6.81 6.98 7.15 7.32 7.50 7.68 7.87 8.06 8.25 8.45 8.66 8.87 9.09 9.31 9.53 9.76													
0.5%	1.00 1.01 1.02 1.04 1.05 1.06 1.07 1.09 1.10 1.11 1.13 1.14 1.15													
0.25%	1.17 1.18 1.20 1.21 1.23 1.24 1.26 1.27 1.29 1.30 1.32 1.33 1.35													
0.1%	1.37 1.38 1.40 1.42 1.43 1.45 1.47 1.49 1.50 1.52 1.54 1.56 1.58 1.60 1.62 1.64 1.65 1.67 1.69 1.72 1.74 1.76 1.78 1.80 1.82 1.84 1.87 1.89 1.91 1.93 1.96 1.98 2.00 2.03 2.05 2.08 2.10 2.13 2.15 2.18 2.21 2.23 2.26 2.29 2.32 2.34 2.37 2.40 2.43 2.46 2.49 2.52 2.55 2.58 2.61 2.64 2.67 2.71 2.74 2.77 2.80 2.84 2.87 2.91 2.94 2.98 3.01 3.05 3.09 3.12 3.16 3.20 3.24 3.28 3.32 3.36 3.40 3.44 3.48 3.52 3.57 3.61 3.65 3.70 3.74 3.79 3.83 3.88 3.92 3.97 4.02 4.07 4.12 4.17 4.22 4.27 4.32 4.37 4.42 4.48 4.53 4.59 4.64 4.70 4.75 4.81 4.87 4.93 4.99 5.05 5.11 5.17 5.23 5.30 5.36 5.42 5.49 5.56 5.62 5.69 5.76 5.83 5.90 5.97 6.04 6.12 6.19 6.26 6.34 6.42 6.49 6.57 6.65 6.73 6.81 6.90 6.98 7.06 7.15 7.23 7.32 7.41 7.50 7.59 7.68 7.77 7.87 7.96 8.06 8.16 8.25 8.35 8.45 8.56 8.66 8.76 8.87 8.98 9.09 9.19 9.31 9.42 9.53 9.65 9.76 9.88													

Disipación de potencia

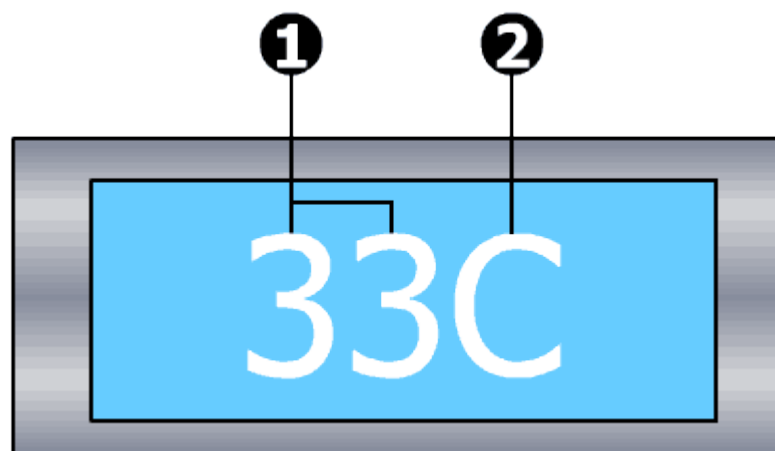
$\frac{1}{4} W, \frac{1}{3} W, \frac{1}{2} W, 1 W, \dots, 100 W$

Resistencias de montaje superficial
SMD –surface mounted device-





Código Multiplicador



R = ¿? Ω

Códigos EIA-96

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

Código de Multiplicador EIA-96

S = 10 ⁻²	R = 10 ⁻¹	A = 10 ⁰	B = 10 ¹	C = 10 ²	D = 10 ³	E = 10 ⁴	F = 10 ⁵
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