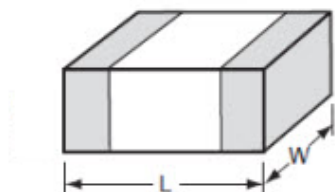


Copper Weight	Thickness [μm]	Thickness [mil]
0.5 oz	17.5 μm	0.7 mil
1 oz	35 μm	1.4 mil
2 oz	70 μm	2.8 mil

SMD Diode	
DO-214AC	SMA
DO-214AA	SMB
DO214AB	SMC

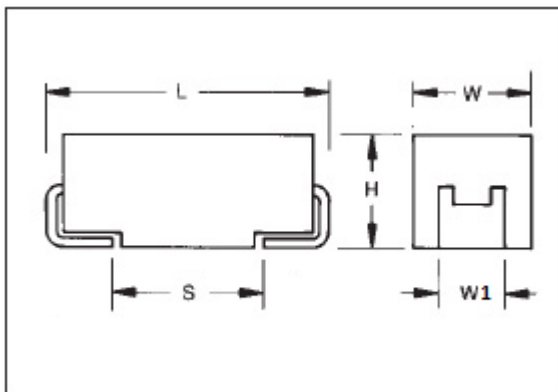


FOOTPRINT		DIMENSIONS [mm]		POWER RATING
EIA [inch]	IEC [mm]	L	W	[W]
01005	0402	0.40	0.20	-
0201	0603	0.60	0.30	1/20
0402	1005	1.00	0.50	1/32 - 1/16
0603	1608	1.60	0.80	1/16 - 1/10
0805	2012	2.00	1.25	1/10 - 1/8
1206	3216	3.20	1.60	1/8 - 1/4
1210	3225	3.20	2.50	1/4 - 1/3
1812	4532	4.50	3.20	-
2010	5025	5.00	2.50	1/2
2512	6332	6.30	3.20	1

Capacitor Tantalum Value	
Picofarad Code	Value
100	10 p
101	100 p
102	1 n
103	10 n
104	100 n
105	1 u
106	10 u
107	100 u

Capacitor Tantalum Voltage	
Voltage Letter	Voltage
e	2.5V
G	4V
J	6.3V
A	10V
C	16V
D	20V
E	25V
V	35V
H	50V

Tantal Capacitors



CODE	EIA Code	EIA Metric	L	W	H	W1	S (min)
A	1206	3216-18	3.20	1.60	1.60	1.20	1.10
B	1210	3528-21	3.50	2.80	1.90	2.20	1.40
C	2312	6032-28	6.00	3.20	2.60	2.20	2.90
D	2917	7343-31	7.30	4.30	2.90	2.40	4.40
E	2917	7343-43	7.30	4.30	4.10	2.40	4.40
V	2924	7361-38	7.30	6.10	3.45	3.10	4.40

TRACE WIDTH	
[mils]	[mm]
4	0.10
5	0.127
6	0.15
8	0.20
10	0.25
12	0.30
15	0.38
16	0.41
20	0.51
24	0.61
25	0.63
30	0.76
40	1.01
50	1.27
80	2.03
100	2.54
120	3.05
160	4.06
200	5.08

EIA Code	Tolerance
E6	20%
E12	10%
E24	5%
E48	2%
E96	1%
E192	0.5, 0.25, 0.1%

E6 - 20% Resistor Table					
100	150	220	330	470	680

E12 - 10% Resistor Table											
100	120	150	180	220	270	330	390	470	560	680	820

E24 - 5% Resistor Table											
100	110	120	130	150	160	180	200	220	240	270	300
330	360	390	430	470	510	560	620	680	750	820	910

E48 - 2% Resistor Table											
100	105	110	115	121	127	133	140	147	154	162	169
178	187	196	205	215	226	237	249	261	274	287	301
316	332	348	365	383	402	422	442	464	487	511	536
562	590	619	649	681	715	750	787	825	866	909	953

E192 - 0.1%, 0.25%, and 0.5% Resistor Table											
100	101	102	104	105	106	107	109	110	111	113	114
115	117	118	120	121	123	124	126	127	129	130	132
133	135	137	138	140	142	143	145	147	149	150	152
154	156	158	160	162	164	165	167	169	172	174	176
178	180	182	184	187	189	191	193	196	198	200	203
205	208	210	213	215	218	221	223	226	229	232	234
237	240	243	246	249	252	255	258	261	264	267	271
274	277	280	284	287	291	294	298	301	305	309	312
316	320	324	328	332	336	340	344	348	352	357	361
365	370	374	379	383	388	392	397	402	407	412	417
422	427	432	437	442	448	453	459	464	470	475	481
487	493	499	505	511	517	523	530	536	542	549	556
562	569	576	583	590	597	604	612	619	626	634	642
649	657	665	673	681	690	698	706	715	723	732	741
750	759	768	777	787	796	806	816	825	835	845	856
866	876	887	898	909	920	931	942	953	965	976	988

Resistance Code Value in ohms R56 0.56 5R6 5.6 100 10 271 270 102 1 k 273 27 k 104 100 k 275 2.7 M 106 10 M 107 100 M

Resistance Code Value in ohms R562 0.562 5R62 5.62 56R2 56.2 1000 100 2711 2.71 k 1002 10 k 2713 271 k 1004 1 M 2715 27.1 M 1006 100 M

R47	4R7	47R	K47	4K7	47K	M47	4M7
0.47 Ω	4.7 Ω	47 Ω	470 Ω	4.7 kΩ	47 kΩ	470 kΩ	4.7 MΩ

R464	464R	4K64	471	472	473	474	475
0.464 Ω	464 Ω	4.64 kΩ	470 Ω	4.7 kΩ	47 kΩ	470 kΩ	4.7 MΩ

4640

470

464 Ω

47 Ω

THESE STYLES ARE AMBIGUOUS AND ARE RARELY USED

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SHORT-CIRCUITING "ZERO-OHM LINKS" OR "JUMPERS"

Resistor Markings

0603
0805
1206



E-24 marking
Value = 10K ohms

0805
1206



E-96 marking
Value = 44.2K ohms

0603
EIA-96 Marking



1 % marking
Value = 12.4K ohms

Marking Explanation

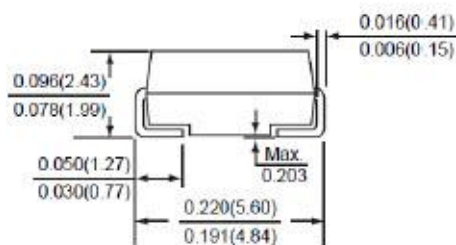
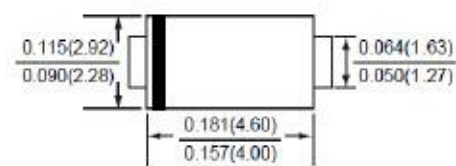
- E-24: 3 digits, first two digits are significant, third digit is number of zeros.
Letter R is decimal point.
 - E-96: 4 digits, first three digits are significant, fourth digit is number of zeros.
Letter R is decimal point.
- 0603 E-96: EIA-96 marking

EIA-96 Marking for Resistors SMD 0603, 1 %

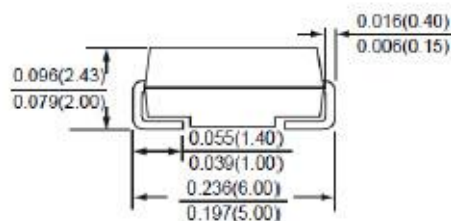
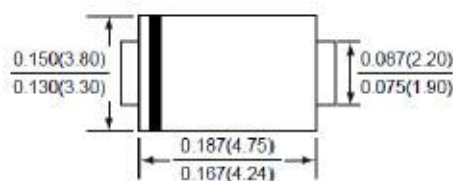
Mark Code	Multiplier	
Y	0.1	-
X	1	-
A	10	-
B	100	-
C	1000	1k
D	10'000	10k
E	100'000	100k
F	1'000'000	1M

Code	R	Code	R	Code	R	Code	R	Code	R	Code	R	Code	R	Code	R
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

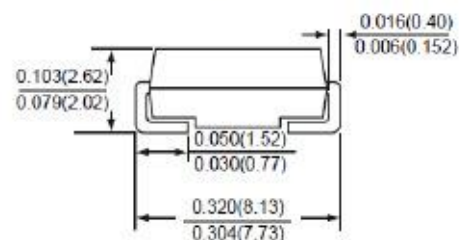
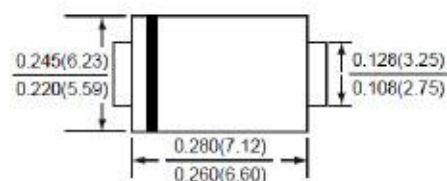
SMA/DO-214AC



SMB/DO-214AA



SMC/DO-214AB



ENIG - Electroless Nickel Immersion Gold - pokrycie niklowane z wierzchnią warstwą złocenia

LF - Lead Free

HAL - Hot Air Leveling

HASL - Tin/Lead Hot Air Solder Level - selektywne nanoszenie powłoki cynowo/ołowiowej

PTH - Plated Through Hole

NPTH - Non-plated Through Hole

OSP - Organic Solderability Preservative - powłoka organiczna

MPCB, MCPCB, IMS, IMPCB - Metal Core PCB, Metal Clad PCB, Insulated Metal Substrate