

SMD REFERENCE SHEET

PASSIVE RECTANGULAR

SMD PACKAGE TYPE		DIMENSIONS MM	DIMENSIONS INCHES
01005		0.4 x 0.2	0.016 x 0.008
0201		0.6 x 0.3	0.02 x 0.01
0402		1.0 x 0.5	0.04 x 0.02
0603		1.5 x 0.8	0.06 x 0.03
0805		2.0 x 1.3	0.08 x 0.05
1008		2.5 x 2.0	0.10 x 0.08
1206		3.0 x 1.5	0.12 x 0.06
1210		3.2 x 2.5	0.125 x 0.10
1806		4.5 x 1.6	0.18 x 0.06
1812		4.6 x 3.0	0.18 x 0.125
2010		5.0 x 2.5	0.20 x 0.10
2512		6.3 x 3.2	0.25 x 0.125

SOD (SMALL OUTLINE DIODE)

SOD PACKAGE TYPE		DIMENSIONS MM
SOD-723		1.4 x 0.6 x 0.59
SOD-523		1.25 x 0.85 x 0.65
SOD-323		1.7 x 1.25 x 0.95
SOD-128		5 x 2.7 x 1.1
SOD-123		3.68 x 1.17 x 1.6
SOD-80C		3.5 x 1.5

DO-214

SOD PACKAGE TYPE		DIMENSIONS MM
DO-214AA		5.3 x 3.6 x 2.25
DO-214AB		7.95 x 5.9 x 2.25
DO-214AC		5.2 x 2.6 x 2.15

MELF (METAL ELECTRODE LEADLESS FACE)

SMD PACKAGE TYPE		DIMENSIONS MM	RATING
MicroMELF / 0102		2.2 x 1.1	0.2 - 0.3W / 150V
MiniMELF / 0204		3.6 x 1.4	0.25 - 0.4W / 200V
MELF / 0207		5.8 x 2.2	0.4 - 1W / 300V

TANTALUM CAPACITORS

SMD PACKAGE TYPE		DIMENSIONS MM	EIA STANDARD
Size A		3.2 x 1.6 x 1.6	EIA 3216-18
Size B		3.5 x 2.8 x 1.9	EIA 3528-21
Size C		6.0 x 3.2 x 2.2	EIA 6032-28
Size D		7.3 x 4.3 x 2.4	EIA 7343-31
Size E		7.3 x 4.3 x 4.1	EIA 7343-43

ALUMINIUM CAPACITORS

SMD PACKAGE TYPE		DIMENSIONS MM
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Size A 3.3 x 3.3

Size B 4.3 x 4.3

Size C 5.3 x 5.3

Size D 6.6 x 6.6

Size E / F 8.3 x 8.3

Size G 10.3 x 10.3

SOT-23	SOT-223	TO-252	TO-263
SO8	TSSOP8	SSOP8	SOP8
3.8 x 4.8	3.1 x 4.5	2.9 x 3.15	6.5 x 5.6

PCB TRACK WIDTH

MILS	TRACE WIDTH
6	
8	
10	
12	
14	
16	
18	
20	
24	
30	
40	
60	

PCB VIA'S

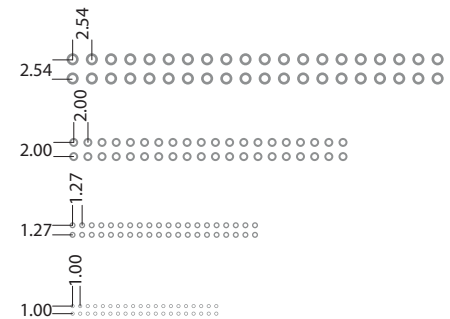
15	18	20	22	24	30
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AWG	Ø MM	WIRE SIZE	AMPERE
10	2.59		55
15	1.45		28
20	0.81		11
25	0.45		2.7
28	0.32		1.4
30	0.25		0.86

HOLES DIAMETER

0.5	0.6	0.7	0.8	0.9	1.0
1.2	1.4	1.5	1.6		
2.2	2.8	3.0	3.2		

PITCH REFERENCE



STUDIOPIETERS®

[HTTPS://WWW.STUDIOPIETERS.NL](https://www.studiopieters.nl)

VERSION 1.0.3

RELEASE DATE: 05/04/2021

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