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Contact US

Tel: 86-755-86229698

Fax: 86-755-86229508

Email: sales01@pakheng.com/

sales20@pakheng.com

Address: The 3rd Industry Zone, Yanchuan, Songgang, Baoan District, Shenzhen, Guangdong, China

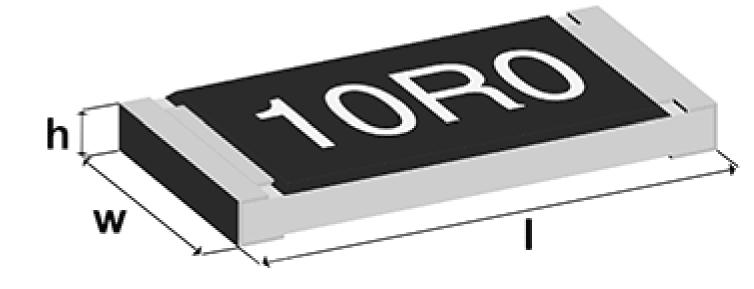
### Home > Exhibition > Content

# SMD Resistor Package Sizes

- Jun 19, 2017 -

## SMD Resistor Sizes

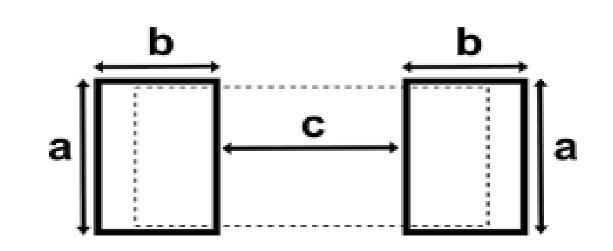
The shape and size of surface mount resistors are standardized, most manufacturers use the JEDEC standards. The size of SMD resistors is indicated by a numerical code, such as 0603. This code contains the width and height of the package. So in the example of 0603 Imperial code, this indicates a length of 0.060" and a width of 0.030". This code can be given in Imperial or Metric units, in general the Imperial code is used more often to indicate the package size. On the contrary in modern PCB design metric units (mm) are more often used, this can be confusing. In general you can assume the code is in imperial units, but the dimensions used are in mm. The SMD resistor size depends mainly on the required power rating. The following table lists the dimensions and specifications of commonly used surface mount packages.



Co	ode	Leng	th (l)	Widtl	h (w)	Heigh	nt (h)	Power
Imperial	Metric	inch	mm	inch	mm	inch	mm	Watt
0201	0603	0.024	0.6	0.012	0.3	0.01	0.25	1/20 (0.05)
0402	1005	0.04	1.0	0.02	0.5	0.014	0.35	1/16 (0.062)
0603	1608	0.06	1.55	0.03	0.85	0.018	0.45	1/10 (0.10)
0805	2012	0.08	2.0	0.05	1.2	0.018	0.45	1/8 (0.125)
1206	3216	0.12	3.2	0.06	1.6	0.022	0.55	1/4 (0.25)
1210	3225	0.12	3.2	0.10	2.5	0.022	0.55	1/2 (0.50)
1218	3246	0.12	3.2	0.18	4.6	0.022	0.55	1
2010	5025	0.20	5.0	0.10	2.5	0.024	0.6	3/4 (0.75)
2512	6332	0.25	6.3	0.12	3.2	0.024	0.6	1

## Solder Pad Land Pattern

When designing with surface mount components the right solder pad size and land pattern should be used. The following table shows an indication of the land pattern for common surface mount packages. The table lists the dimensions for reflow soldering, for wave soldering smaller pads are used.

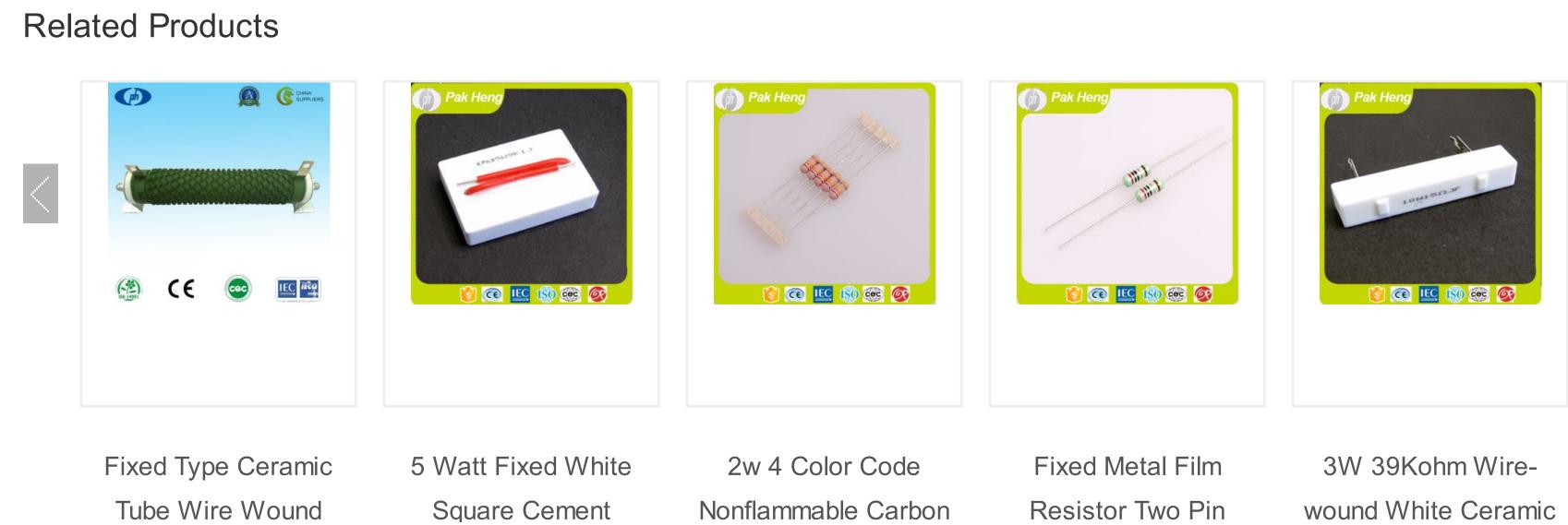


Code		Pad length (a)		Pad width (b)		Gap (c)	
Imperial	Metric	inch	mm	inch	mm	inch	mm
0201	0603	0.012	0.3	0.012	0.3	0.012	0.3
0402	1005	0.024	0.6	0.020	0.5	0.020	0.5
0603	1608	0.035	0.9	0.024	0.6	0.035	0.9
0805	2012	0.051	1.3	0.028	0.7	0.047	1.2
1206	3216	0.063	1.6	0.035	0.9	0.079	2.0
1218	3246	0.19	4.8	0.035	0.9	0.079	2.0
2010	5025	0.11	2.8	0.059	0.9	0.15	3.8
2512	6332	0.14	3.5	0.063	1.6	0.15	3.8

Previous: Axial resistor size Next: Resistor SMD Code and Package

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tel: 86-755-86229698 E-mail : sales01@pakheng.com sales20@pakheng.com Fax: 86-755-86229508 **S** Mob : 86-13928486269 Copyright 2014-2023 © Shenzhen PakHeng

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