

Surface Mount Resistors (SMR) are best suited for commercial industrial and automotive applications. Chip Resistors are suitable for a wide range of solder processes, and are ideal for high-speed electronic assembly equipment. Chip Resistor body size range from 01005 to 1210. Seven-inch reels are standard, but eleven and thirteen-inch reels are available

upon special request. Paper carrier tape is standard for Chip Resistors. In addition, Zero-Ohm Chip Resistors have a copper wire internally. This creates a short condition. Zero-Ohm Chip Resistors can be used to check for continuity after soldering.

### SMR Surface Mount Resistors—Lead-Free

Part Description	Body Size		Metric	Tape Width	Tape Pitch	Quantity 7" Reel
	(Inch)	(mm)				
01005SMR-PA-Sn-0	.01" x .005"	0.4 x 0.2mm	0402	8mm	2mm	20,000
0201SMR-PA-Sn-0	.02" x .01"	0.6 x .03mm	0603	8mm	2mm	15,000
0402SMR-PA-Sn-0	.04" x .02"	1.0 x 0.5mm	1005	8mm	2mm	10,000
0603SMR-PA-Sn-0	.06" x .03"	1.6 x 0.8mm	1608	8mm	4mm	5,000
0805SMR-PA-Sn-0	.08" x .05"	2.0 x 1.2mm	2012	8mm	4mm	5,000
1206SMR-PA-Sn-0	.12" x .06"	3.2 x 1.6mm	3216	8mm	4mm </td <td>5,000</td>	5,000
1210SMR-PA-Sn-0	.12" x .10"	3.2 x 2.6mm	3225	8mm	4mm	4,000

#### Notes

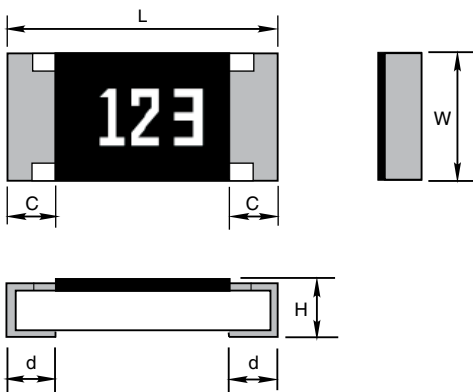
- Surface mount resistors come packaged on paper carrier tape and 7" reels (larger quantities are available upon request).
- Plastic carrier tape is non-standard for surface mount resistors.
- The numeric section of the part number refers to the physical body size (in inches) of the component. For example: Part number 0402SMR-PA has a body size of .04" length by .02" width.
- Chip resistor arrays are available (call for availability).
- Resistors are now only available standard lead-free with 100% Sn over Ni.



#### Part Description System

Body Size in Inches — 0402SMR-PA — Tape Type  
 Surface Mount Resistor

- Tape Type: PA=Paper Tape, PL=Plastic Tape.



For kits see pages 90, 92, 93, 94, 98, 100, 105, 106, 107, 109, 111, and 112.

### SMR Component Dimensions

Metric	Inch	L	W	H	c	d	* Unit weight/pc.
0402	01005	0.4 +/- 0.02	0.2 +/- 0.02	0.12 +/- 0.02	0.1 +/- 0.03	0.1 +/- 0.03	—
0603	0201	0.6 +/- 0.03	0.3 +/- 0.03	0.23 +/- 0.03	0.1 +/- 0.05	0.15 +/- 0.05	0.16mg
1005	0402	1.0 +/- 0.05	0.5 +/- 0.05	0.35 +/- 0.05	0.2 +/- 0.1	0.25 + 0.05 - 0.10	0.6mg
1608	0603	1.6 +/- 0.1	0.8 + 0.15 - 0.05	0.45 +/- 0.10	0.3 +/- 0.1	0.3 +/- 0.1	2mg
2012	0805	2.0 +/- 0.1	1.25 +/- 0.10	0.55 +/- 0.10	0.4 +/- 0.2	0.4 +/- 0.2	5mg
3216	1206	3.2 +/- 0.15	1.6 +/- 0.15	0.55 +/- 0.10	0.5 +/- 0.25	0.5 +/- 0.25	9mg
3225	1210	3.2 +/- 0.15	2.5 +/- 0.15	0.55 +/- 0.15	0.5 +/- 0.25	0.5 +/- 0.25	16mg

Unit: mm \*Values for reference