

# Chip Beads

## Medium Current Chip Beads (1-3 Amp)

Dimensions (Bold numbers are in millimeters, light numbers are in inches.)

Pkg. Size	Dimensions				Wt(g)	Signal Speed	Part Number *	Z( $\Omega$ ) $\pm$ 25% @ 100 MHz	Max. DCR ohm	Max. Current mA	Z, R <sub>s</sub> , X <sub>L</sub> vs. Frequency Curve	DC Bias Curve
	A	B	C	D								
<b>0603</b>	<b>0.8<math>\pm</math>0.3</b> .031	<b>0.8<math>\pm</math>0.3</b> .031	<b>1.6<math>\pm</math>0.15</b> .063	<b>0.4<math>\pm</math>0.2</b> .016	<b>0.006</b>	Standard	<b>2506033007Y1</b>	30	0.1	1000	Figure 47A	Figure 47B
<b>0805</b>	<b>0.9<math>\pm</math>0.2</b> .035	<b>1.25<math>\pm</math>0.2</b> .049	<b>2.0<math>\pm</math>0.2</b> .079	<b>0.55<math>\pm</math>0.45</b> .022	<b>0.01</b>	Standard	<b>2508053007Y3</b>	30	0.04	3000	Figure 48A	Figure 48B
<b>1206</b>	<b>1.1<math>\pm</math>0.2</b> .043	<b>1.6<math>\pm</math>0.2</b> .063	<b>3.2<math>\pm</math>0.2</b> .126	<b>0.55<math>\pm</math>0.45</b> .022	<b>0.03</b>	Standard	<b>2512061907Y1</b>	19	0.04	1500	Figure 49A	Figure 49B
							<b>2512063007Y3</b>	30	0.04	3000	Figure 50A	Figure 50B
							<b>2512065007Y3</b>	50	0.05	3000	Figure 51A	Figure 51B
							<b>2512067007Y3</b>	70	0.05	3000	Figure 52A	Figure 52B
<b>1806</b>	<b>1.6<math>\pm</math>0.2</b> .063	<b>1.6<math>\pm</math>0.2</b> .063	<b>4.5<math>\pm</math>0.2</b> .177	<b>0.55<math>\pm</math>0.45</b> .022	<b>0.06</b>	Standard	<b>2518066007Y3</b>	60	0.04	3000	Figure 54A	Figure 54B
							<b>2518068007Y1</b>	80	0.1	1500	Figure 55A	Figure 55B
<b>1812</b>	<b>1.6<math>\pm</math>0.2</b> .063	<b>3.2<math>\pm</math>0.2</b> .126	<b>4.5<math>\pm</math>0.2</b> .177	<b>0.55<math>\pm</math>0.45</b> .022	<b>0.09</b>	Standard	<b>2518127007Y3</b>	70	0.04	3000	Figure 56A	Figure 56B
							<b>2518121217Y3</b>	120	0.04	3000	Figure 57A	Figure 57B

## High Current Chip Beads (>3 Amp)

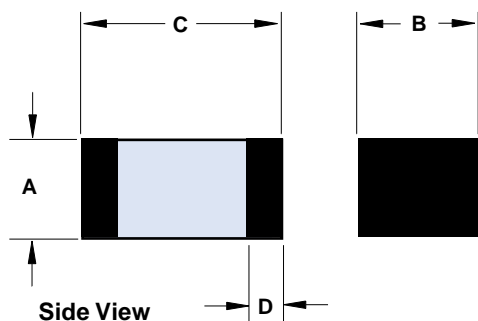
Dimensions (Bold numbers are in millimeters, light numbers are in inches.)

Pkg. Size	Dimensions				Wt(g)	Signal Speed	Part Number *	Z( $\Omega$ ) $\pm$ 25% @ 100 MHz	Max. DCR ohm	Max. Current mA	Z, R <sub>s</sub> , X <sub>L</sub> vs. Frequency Curve	DC Bias Curve
	A	B	C	D								
<b>1206</b>	<b>1.1<math>\pm</math>0.2</b> .043	<b>1.6<math>\pm</math>0.2</b> .063	<b>3.2<math>\pm</math>0.2</b> .126	<b>0.6<math>\pm</math>0.2</b> .024	<b>0.03</b>	Standard	<b>2512065007Y6</b>	50	0.02	6000	Figure 58A	Figure 58B
<b>1806</b>	<b>1.6<math>\pm</math>0.2</b> .063	<b>1.6<math>\pm</math>0.2</b> .063	<b>4.5<math>\pm</math>0.2</b> .177	<b>0.6<math>\pm</math>0.2</b> .024	<b>0.06</b>	Standard	<b>2518065007Y6</b>	50	0.01	6000	Figure 59A	Figure 59B
							<b>2518068007Y6</b>	80	0.02	6000	Figure 60A	Figure 60B
<b>1812</b>	<b>1.6<math>\pm</math>0.2</b> .063	<b>3.2<math>\pm</math>0.2</b> .126	<b>4.5<math>\pm</math>0.2</b> .177	<b>0.55<math>\pm</math>0.45</b> .022	<b>0.09</b>	Standard	<b>2518121217Y6</b>	120	0.02	6000	Figure 61A	Figure 61B

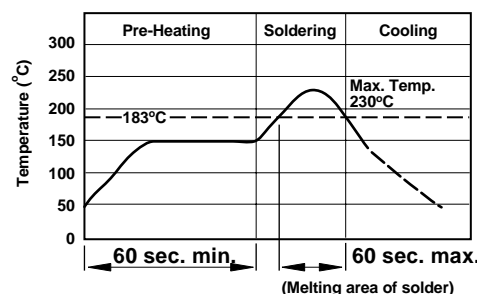
\* Bold part numbers designate preferred parts.

## Part Number System: Example 2512063017Y1

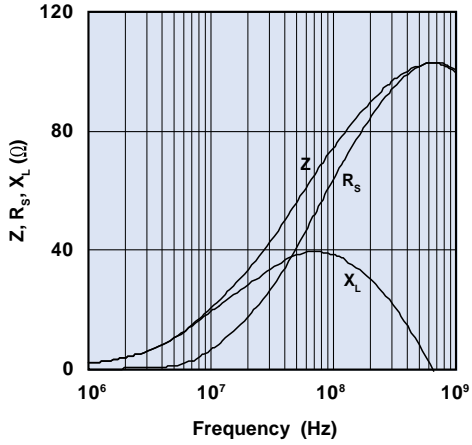
25	1206	301	7	Y	1
Chip Bead Code	Package Size Code	Impedance Code	Packaging Code	Material Code	Current Code
			6= Bulk Packed 7= Taped and Reeled 7" Reel 8= Taped and Reeled 13" Reel	Y = Standard Signal Speed Z = High Signal Speed	0 < 1.0A 1 $\geq$ 1.0A < 2.0A 3 $\geq$ 3.0A < 4.0A 6 $\geq$ 6.0A < 7.0A



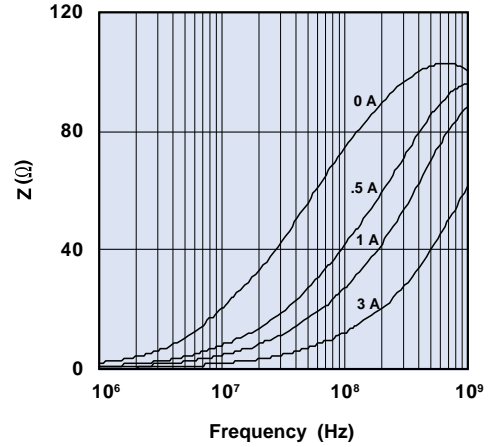
## Standard Soldering Profile



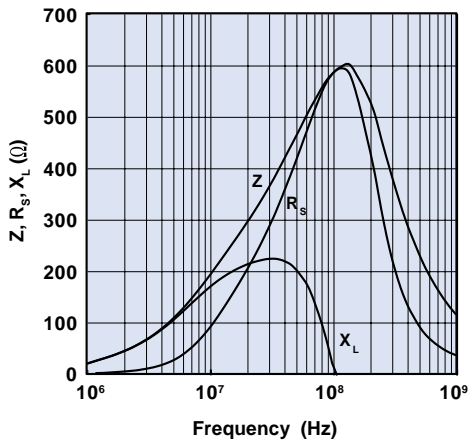
# Chip Beads



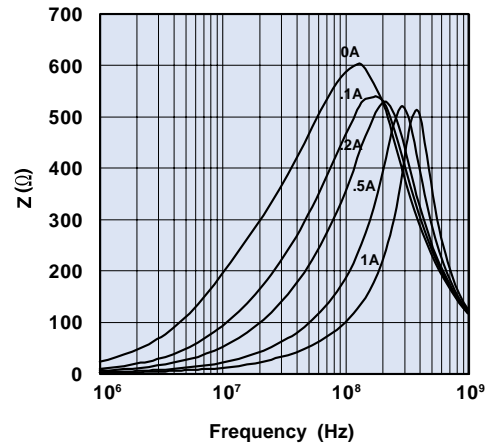
**Figure 52A** Impedance, reactance, and resistance vs. frequency for chip bead 2512067007Y3.



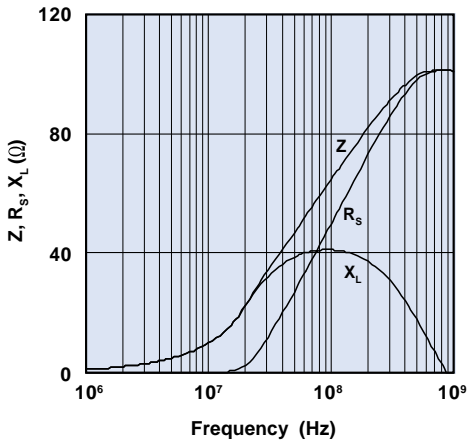
**Figure 52B** Impedance vs. frequency with dc bias as parameter for chip bead 2512067007Y3.



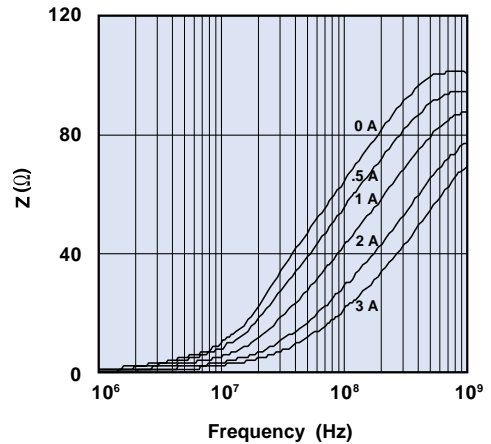
**Figure 53A** Impedance, reactance, and resistance vs. frequency for chip bead 2512066017Y1.



**Figure 53B** Impedance vs. frequency with dc bias as parameter for chip bead 2512066017Y1.



**Figure 54A** Impedance, reactance, and resistance vs. frequency for chip bead 2518066007Y3.



**Figure 54B** Impedance vs. frequency with dc bias as parameter for chip bead 2518066007Y3.