52 14th Edition

Chip Beads

Medium Current Chip Beads (1-3 Amp)

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

Pkg.		Dimensions		\A/+/~\	Signal	Part Number*	Ζ (Ω) ±25%	Max. DCR	Max. Current	Z, R _s , X _L vs.	DC Bias	
Size	Α	В	С	D	Wt(g)	Speed	Fait Number	@ 100 MHz	ohm	mA	Frequency Curve	Curve
0603	0.8±0.3 .031	0.8±0.3 .031	1.6±0.15 .063	0.4±0.2 .016	0.006	Standard	2506033007Y1	30	0.1	1000	Figure 47A	Figure 47B
0805	0.9±0.2 .035	1.25±0.2 .049	2.0±0.2 .079	0.55±0.45 .022	0.01	Standard	2508053007Y3	30	0.04	3000	Figure 48A	Figure 48B
							2512061907Y1	19	0.04	1500	Figure 49A	Figure 49B
	1.1±0.2	1.6±0.2	3.2±0.2	0.55±0.45			2512063007Y3	30	0.04	3000	Figure 50A	Figure 50B
1206	.043	.063	.126	.022	0.03	Standard	2512065007Y3	50	0.05	3000	Figure 51A	Figure 51B
							2512067007Y3	70	0.05	3000	Figure 52A	Figure 52B
							2512066017Y1	600	0.3	1000	Figure 53A	Figure 53B
1806	1.6±0.2	1.6±0.2	4.5±0.2	0.55±0.45	0.06	Standard	2518066007Y3	60	0.04	3000	Figure 54A	Figure 54B
1000	.063	.063	.177	.022	0.00	2 32 1 4 4 1	2518068007Y1	80	0.1	1500	Figure 55A	Figure 55B
1812	1.6±0.2	3.2±0.2	4.5±0.2	0.55±0.45	0.09	Standard	2518127007Y3	70	0.04	3000	Figure 56A	Figure 56B
1012	.063	.126	.177	.022	0.09	Stariuaru	2518121217Y3	120	0.04	3000	Figure 57A	Figure 57B

High Current Chip Beads (>3 Amp)

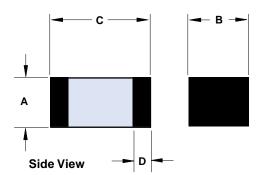
Dimensions (Bold numbers are in millimeters light numbers are in inches)

Pkg.		Dimensions		10(1/-)	Signal	Part Number*	Z (Ω) ±25%	Max. DCR	Max. Current	Z, R _s , X _L vs.	DC Bias	
Size	Α	В	С	D	Wt(g)	Speed	rait Nullibel	@ 100 MHz	ohm	mA	Frequency Curve	Curve
1206	1.1±0.2 .043	1.6±0.2 .063	3.2±0.2 .126	0.6±0.2 .024	0.03	Standard	2512065007Y6	50	0.02	6000	Figure 58A	Figure 58B
1806	1.6±0.2	1.6±0.2	4.5±0.2	0.6±0.2	0.06 Stand	Ctondord	2518065007Y6	50	0.01	6000	Figure 59A	Figure 59B
1000	.063	.063	.177	.024		Stariuaru	2518068007Y6	80	0.02	6000	Figure 60A	Figure 60B
1812	1.6±0.2 .063	3.2±0.2 .126	4.5±0.2 .177	0.55±0.45 .022	0.09	Standard	2518121217Y6	120	0.02	6000	Figure 61A	Figure 61B

^{*} Bold part numbers designate preferred parts.

Part Number System: Example 2512063017Y1

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



Standard Soldering Profile Pre-Heating Soldering Cooling 300 remperature (°C) 250 Max. Temp. 200 183°C -150 100 50 60 sec. min. 60 sec. max. (Melting area of solder)

- air-Rite Products Corp. P.O. Box J,One Commercial Row, Wallkill, NY 12589-0288

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Chip Beads

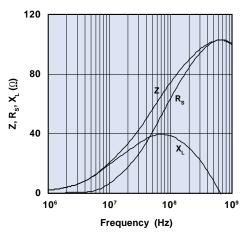


Figure 52A Impedance, reactance, and resistance vs. frequency for chip bead 2512067007Y3.

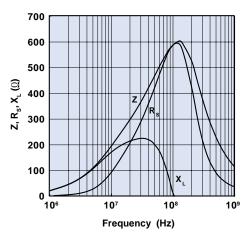


Figure 53A Impedance, reactance, and resistance vs. frequency for chip bead 2512066017Y1.

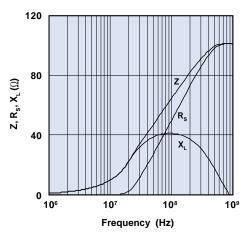


Figure 54A Impedance, reactance, and resistance vs. frequency for chip bead 2518066007Y3.

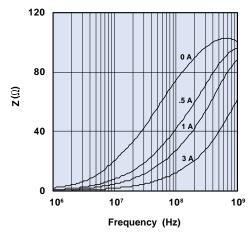


Figure 52B Impedance vs. frequency with dc bias as parameter for chip bead 2512067007Y3.

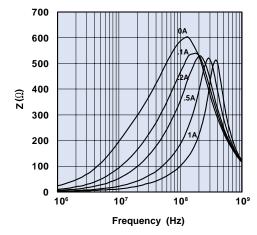


Figure 53B Impedance vs. frequency with dc bias as parameter for chip bead 2512066017Y1.

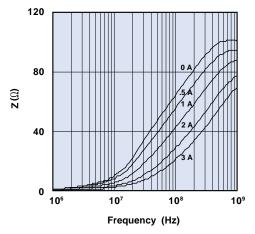


Figure 54B Impedance vs. frequency with dc bias as parameter for chip bead 2518066007Y3.