Chip Beads

Low Current Chip Beads (<1 Amp)

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

Pkg. Size	Dimensions A	B	C	D	Wt(g)	Signal Speed	Part Number	Z(Ω) ±25% @ 100 MHz	Max. DCR ohm	Max. Current mA	Z, R_s, X_L vs. Frequency Curve	DC Bias 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	**2506033007Y0**	30	0.1	200	Figure 1A	Figure 1B
							2506036007Y0	60	0.2	200	Figure 2A	Figure 2B
							2506038007Y0	80	0.2	150	Figure 3A	Figure 3B
							2506039007Y0	90	0.2	150	Figure 4A	Figure 4B
							2506031017Y0	100	0.2	150	Figure 5A	Figure 5B
							2506031217Y0	120	0.2	150	Figure 6A	Figure 6B
							2506031517Y0	150	0.3	150	Figure 7A	Figure 7B
							2506033017Y0	300	0.6	100	Figure 8A	Figure 8B
							2506036017Y0	600	0.8	100	Figure 9A	Figure 9B
							2506031027Y0	1000	1	100	Figure 10A	Figure 10B
						High	**250603607Z0**	60	0.5	200	Figure 11A	Figure 11B
							250603217Z0	120	0.5	150	Figure 12A	Figure 12B
							250603317Z0	300	0.85	100	Figure 13A	Figure 13B
0805	**0.9±0.2** .035	**1.25±0.2** .049	**2.0±0.2** .079	**0.45±0.35** .018	0.01	Standard	**2508051107Y0**	11	0.1	300	Figure 14A	Figure 14B
							2508053007Y0	30	0.2	300	Figure 15A	Figure 15B
							2508055007Y0	50	0.2	300	Figure 16A	Figure 16B
							2508056007Y0	60	0.2	300	Figure 17A	Figure 17B
							2508059007Y0	90	0.3	300	Figure 18A	Figure 18B
							2508051017Y0	100	0.3	300	Figure 19A	Figure 19B
							2508051217Y0	120	0.3	300	Figure 20A	Figure 20B
							2508051817Y0	180	0.3	300	Figure 21A	Figure 21B
							2508053017Y0	300	0.4	300	Figure 22A	Figure 22B
							2508056017Y0	600	0.6	200	Figure 23A	Figure 23B
							2508051027Y0	1000	0.8	100	Figure 24A	Figure 24B
							2508051527Y0	1500	1	100	Figure 25A	Figure 25B
						High	**250805607Z0**	60	0.3	300	Figure 26A	Figure 26B
							250805217Z0	120	0.3	300	Figure 27A	Figure 27B
							250805317Z0	300	0.55	100	Figure 28A	Figure 28B
1206	**1.1±0.2** .043	**1.6±0.2** .063	**3.2±0.2** .126	**0.55±0.45** .022	0.03	Standard	**2512063007Y0**	30	0.1	500	Figure 29A	Figure 29B
							2512065007Y0	50	0.2	400	Figure 30A	Figure 30B
							2512066007Y0	60	0.2	400	Figure 31A	Figure 31B
							2512067007Y0	70	0.2	400	Figure 32A	Figure 32B
							2512068007Y0	80	0.2	400	Figure 33A	Figure 33B
							2512069007Y0	90	0.2	300	Figure 34A	Figure 34B
							2512061017Y0	100	0.2	300	Figure 35A	Figure 35B
							2512061217Y0	120	0.2	300	Figure 36A	Figure 36B
							2512063017Y0	300	0.3	200	Figure 37A	Figure 37B
							2512066017Y0	600	0.6	200	Figure 38A	Figure 38B
							2512061027Y0	1000	0.8	100	Figure 39A	Figure 39B
							2512061527Y0	1500@50 MHz	1	100	Figure 40A	Figure 40B
1806	**1.6±0.2** .063	**1.6±0.2** .063	**4.5±0.2** .177	**0.55±0.45** .022	0.06	Standard	**2518066007Y0**	60	0.2	500	Figure 41A	Figure 41B
							2518067007Y0	70	0.2	500	Figure 42A	Figure 42B
							2518068007Y0	80	0.2	500	Figure 43A	Figure 43B
							2518061017Y0	100	0.3	400	Figure 44A	Figure 44B
							2518061517Y0	150	0.3	400	Figure 45A	Figure 45B
							2518063017Y0	300	0.3	400	Figure 46A	Figure 46B

** Bold part numbers designate preferred parts.*

Round Cable EMI Suppression Cores

Listed in ascending order of "B" dimension.

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

Part Number**	A	B	C*	Wt (g)	H (Oe)	Typical Impedance(Ω)[1] 10 MHz	25 MHz	100 MHz	250 MHz
2661540002	**14.3±0.45** .562	**6.35±0.25** .250	**28.6±0.75** 1.125	14	.43	–	–	250	310
2643540302	**14.3±0.45** .562	**7.1±0.25** .280	**15.25±0.4** .600	7.5	.41	–	75	118	–
2643800302	**12.7±0.25** .500	**7.15±0.2** .282	**4.9 - 0.25** .188	1.7	.43	–	26	42	–
2643540402	**14.3±0.45** .562	**7.25±0.15** .286	**28.6±0.75** 1.125	14	.40	–	143	215	–
2643801102	**12.7±0.25** .500	**7.9±0.2** .312	**6.35±0.2** .250	2.1	.40	–	26	41	–
2643801902	**12.7±0.25** .500	**7.9±0.2** .312	**12.7±0.4** .500	4.3	.40	–	44	73	–
2631625002	**16.25 - 0.75** .625	**7.9±0.25** .312	**14.3±0.35** .562	8.7	.36	53	75	130	–
2643625002	**16.25 - 0.75** .625	**7.9±0.25** .312	**14.3±0.35** .562	8.7	.36	–	70	113	–
2631625102	**16.25 - 0.75** .625	**7.9±0.25** .312	**28.6±0.75** 1.125	17	.36	103	156	260	–
2643625102	**16.25 - 0.75** .625	**7.9±0.25** .312	**28.6±0.75** 1.125	17	.36	–	130	213	–
2643625202	**16.25 - 0.75** .625	**7.9±0.25** .312	**50.8±1.0** 2.000	31	.36	–	235	384	–
2643665902	**17.45±0.4** .687	**9.5±0.25** .375	**6.35±0.25** .250	4.5	.32	–	26	44	–
2643665802	**17.45±0.4** .687	**9.5±0.25** .375	**12.7±0.5** .500	9.0	.32	–	55	88	–
2631665702	**17.45±0.4** .687	**9.5±0.25** .375	**28.6±0.75** 1.125	20	.32	89	138	225	–
2643665702	**17.45±0.4** .687	**9.5±0.25** .375	**28.6±0.75** 1.125	20	.32	–	125	200	–
2661665702	**17.45±0.4** .687	**9.5±0.25** .375	**28.6±0.75** 1.125	20	.32	–	–	156	260
2631626302	**19.0 - 0.65** .735	**10.15±0.25** .400	**14.65 - 0.75** .562	12	.29	44	69	115	–
2643626302	**19.0 - 0.65** .735	**10.15±0.25** .400	**14.65 - 0.75** .562	12	.29	–	63	96	–
2631626402	**19.0 - 0.65** .735	**10.15±0.25** .400	**28.6±0.75** 1.125	23	.29	89	138	225	–
2643626402	**19.0 - 0.65** .735	**10.15±0.25** .400	**28.6±0.75** 1.125	23	.29	–	128	196	–
2643626502	**19.0 - 0.65** .735	**10.15±0.25** .400	**50.8±1.0** 2.000	41	.29	–	225	348	–
2643801502	**25.4±0.65** 1.000	**12.7±0.35** .500	**6.35±0.25** .250	9.9	.23	–	34	53	–

***Bold part numbers designate preferred parts.*

**This dimension may be modified to suit specific applications.*

[1] Guaranteed Z Min is Z Typ -20%

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Round Cable Snap-its

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

Part Number*	Fig.	Cable Diameter	A	B**	C	D	E	Typical Impedance(Ω) [1]			Z, R_S, X_L vs. Frequency Curve
								10 MHz	25 MHz	100 MHz	
0431173951	1	**5.3 Max.** .210 Max.	**12.8** .504	**5.1** .200	**25.0** .984	**5.6** .220	-	60	100	180	Figure 4
0444173951	1	**5.3 Max.** .210 Max.	**12.8** .504	**5.1** .200	**25.0** .984	**5.6** .220	-	-	94	150	Figure 5
0431164951	1	**5.3 Max.** .210 Max.	**17.3** .680	**5.1** .200	**36.2** 1.42	**8.4** .331	-	100	169	280	Figure 6
0444164951	1	**5.3 Max.** .210 Max.	**17.3** .680	**5.1** .200	**36.2** 1.42	**8.4** .331	-	-	144	245	Figure 7
0443164251	2	**6.4 Max.** .250 Max.	**17.9** .705	**7.0** .275	**32.3** 1.272	**9.2** .362	-	-	163	275	Figure 8
0431164281	1	**7.0 Max.** .275 Max.	**20.0** .788	**6.6** .260	**39.4** 1.55	**9.78** .385	-	113	188	310	Figure 9
0444164281	1	**7.0 Max.** .275 Max.	**20.0** .788	**6.6** .260	**39.4** 1.55	**9.78** .385	-	-	156	260	Figure 10
0443625006	3	**7.6 Max.** .300 Max.	**24.7** .972	**7.9** .311	**22.8** .898	**10.2** .402	**17.8** .701	-	50	113	Figure 11
0443665806	3	**9.3 Max.** .365 Max.	**26.3** 1.035	**9.2** .362	**21.4** .843	**11.0** .433	**16.4** .646	-	41	88	Figure 12
0443167251	2	**10.0 Max.** .390 Max.	**22.1** .870	**10.2** .402	**32.3** 1.272	**11.0** .433	-	-	138	225	Figure 13
0431167281	1	**10.5 Max.** .410 Max.	**23.7** .933	**10.2** .400	**39.4** 1.55	**11.70** .461	-	81	144	240	Figure 14
0444167281	1	**10.5 Max.** .410 Max.	**23.7** .933	**10.2** .400	**39.4** 1.55	**11.70** .461	-	-	125	210	Figure 15
0443800506+	3	**12.7 Max.** .500 Max.	**29.7** 1.169	**12.8** .504	**20.6** .811	**12.7** .500	**15.6** .614	-	35	75	Figure 16
0443164151	2	**12.7 Max.** .500 Max.	**29.0** 1.142	**13.4** .528	**32.5** 1.280	**14.8** .583	-	-	156	250	Figure 17
0431164181	1	**13.3 Max.** .525 Max.	**31.0** 1.220	**13.0** .512	**39.4** 1.55	**15.25** .600	-	100	156	260	Figure 18
0444164181	1	**13.3 Max.** .525 Max.	**31.0** 1.220	**13.0** .512	**39.4** 1.55	**15.25** .600	-	-	138	230	Figure 19
0443806406	3	**15.0 Max.** .590 Max.	**34.3** 1.350	**15.0** .591	**21.2** .835	**15.0** .591	**16.2** .638	-	43	90	Figure 20
0431173551	2	**19.0 Max.** .750 Max.	**29.2** 1.150	**18.8** .740	**42.0** 1.65	**14.7** .579	-	69	125	220	Figure 21
0444173551	2	**19.0 Max.** .750 Max.	**29.2** 1.150	**18.8** .740	**42.0** 1.65	**14.7** .579	-	-	94	195	Figure 22
0444176451	1	**19.0 Max.** .750 Max.	**38.6** 1.52	**18.35** .722	**47.5** 1.87	**19.15** .754	-	-	175	365	Figure 23
0444177081	1	**25.9 Max.** 1.020 Max.	**56.4** 2.22	**25.4** 1.00	**42.95** 1.69	**27.45** 1.08	-	-	194	338	Figure 24

[1] Guaranteed Z Min is Z Typ -20%

** Bold part numbers designate preferred parts.*

*** "B" dimension is the core dimension.*

\+ *Case is Nylon 6/6 - Flammability rating UL94-V2.*

NOTE: See page 185 for additional new High Frequency Split Round Suppressor Cores in 61 material. These cores will operate from 10 MHz into the GHz's frequency range.

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Flat Cable EMI Suppression Cores

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

Part Number**	Fig.	Max. Cable Width	A	B	C*	D	E	Wt (g)	Typical Impedance(Ω)[1]			Clip P/N	Case P/N	Z, R_{ST}, X_L vs. Frequency Curve
									10 MHz	25 MHz	100 MHz			
2643171351	1	6.4mm .250	11.4±0.25 .450	6.6±0.15 .260	7.6±0.25 .300	3.3 - 0.25 .125	0.15+0.15 .009	1.4	—	50	80	—	—	Figure 6
2643172751	2	10mm .385	14.5±0.2 .571	10.0±0.13 .394	10.0±0.13 .394	2.5±0.15 .098	0.5+0.25 .025	1.5	—	31	59	—	—	Figure 7
2643173851	2^	12mm .490	16.5±0.25 .650	12.5±0.2 .492	10.25±0.25 .404	2.0±0.15 .079	0.5+0.25 .025	1.3	—	33	60	—	—	Figure 8
2643170251	3	12mm .490	22.75±0.65 .895	12.7±0.5 .500	12.7±0.5 .500	3.3 - 0.25 .125	1.15+0.25 .050	3.5	—	39	71	—	—	Figure 9
2643169552	4	14mm .550	19.95±0.4 .785	14.2±0.25 .560	10.15±0.5 .400	6.35±0.25 .250	0.9±0.15 .035	5.7	—	35	75	—	—	Figure 10
2643168751	4	17mm .680	25.4±0.75 1.000	17.8±0.5 .700	12.7±0.4 .500	10.15±0.25 .400	2.55±0.25 .100	13	—	44	85	—	—	Figure 11
2643173351	5	20mm .770	24.5±0.4 .965	20.0±0.4 .787	12.0±0.3 .472	5.0±0.25 .197	0.75±0.25 .030	6.6	—	31	55	—	—	Figure 12
2643168651	3	26mm 1.030	38.85±0.75 1.530	26.15±0.75 1.030	28.6±0.7 1.125	13.0±0.3 .512	6.35+0.25 .255	45	—	100	185	—	—	Figure 13
2643164551	4	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	12.3±0.4 .485	12.05±0.4 .475	1.9±0.4 .075	25	—	48	98	—	—	Figure 14
2643171051	2	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	14	—	50	105	0199001401 0199016051	—	Figure 15
2643166851	2	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	25.4±0.75 1.000	6.35±0.25 .250	0.85±0.2 .033	27	—	100	210	0199001401	—	Figure 16
2631163851	4	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	25.4±0.75 1.000	12.05±0.4 .475	1.9±0.4 .075	51	63	106	205	—	—	Figure 17
2643163851	4	26mm 1.030	38.1±1.0 1.500	26.65±0.75 1.050	25.4±0.75 1.000	12.05±0.4 .475	1.9±0.4 .075	51	—	95	195	—	—	Figure 18
2643172551	5	27mm 1.060	33.5±0.65 1.319	27.0±0.5 1.063	8.0±0.4 .315	6.5±0.25 .256	1.25+0.7 .063	6.8	—	18	42	—	—	Figure 19
2643169351	4	27mm 1.060	33.65±0.75 1.325	27.5±0.5 1.083	13.2±0.5 .520	6.7±0.4 .265	1.35±0.25 .053	12	—	31	65	—	—	Figure 20
2643167051	2^	28mm 1.080	40.9±0.75 1.600	28.2±0.75 1.100	12.7±0.25 .500	15.0±0.25 .590	8.5±0.15 .335	23	—	46	88	—	—	Figure 21
2643166451	2	28mm 1.080	38.35±1.0 1.510	27.95±1.0 1.100	28.6±0.7 1.125	9.0±0.3 .355	3.3±0.25 .130	35	—	90	170	0199010301	—	Figure 22
2643168051	2^	32mm 1.280	52.9±1.0 2.083	33.0±0.7 1.299	31.25±1.0 1.230	12.5±0.4 .492	3.5±0.4 .138	84	—	133	243	—	—	Figure 23
2643167551	2^	32mm 1.280	52.9±1.0 2.083	33.0±0.7 1.299	63.5±1.8 2.500	12.5±0.4 .492	3.5±0.4 .138	170	—	260	460	—	—	Figure 24
2643170951	2	34mm 1.330	45.1±0.75 1.775	34.4±0.7 1.355	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	16	—	43	100	0199001401 0199016051	—	Figure 25
2643166551	4	34mm 1.330	45.1±0.75 1.775	34.4±0.7 1.355	28.6±0.7 1.125	12.45±0.4 .490	1.5±0.3 .060	71	—	95	195	—	0199166651	Figure 26
2643166651	2	34mm 1.330	45.1±0.75 1.775	34.4±0.7 1.355	28.6±0.7 1.125	6.35±0.25 .250	0.85±0.2 .033	36	—	96	225	0199001401 0199016551	0199166651	Figure 27
2643168251	2	52mm 2.030	63.5±1.3 2.500	52.1±1.1 2.050	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	22	—	39	104	0199001401 0199016051	—	Figure 28
2631163951	2	52mm 2.030	63.5±1.3 2.500	52.1±1.1 2.050	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	50	44	88	220	0199001401 0199016551	0199163951	Figure 29
2643163951	2	52mm 2.030	63.5±1.3 2.500	52.1±1.1 2.050	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	50	—	81	210	0199001401 0199016551	0199163951	Figure 30
2643167751	2	65mm 2.550	76.2±1.5 3.000	65.3±1.3 2.570	12.7±0.4 .500	6.35±0.25 .250	0.85±0.2 .033	27	—	36	110	0199001401 0199016051	—	Figure 31
2631164051	2	65mm 2.550	76.2±1.5 3.000	65.3±1.3 2.570	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	60	40	81	225	0199001401 0199016551	0199164051	Figure 32
2643164051	2	65mm 2.550	76.2±1.5 3.000	65.3±1.3 2.570	28.6±0.8 1.125	6.35±0.25 .250	0.85±0.2 .033	60	—	75	215	0199001401 0199016551	0199164051	Figure 33
2643171151	2	78mm 3.060	88.9±1.8 3.500	78.2±1.5 3.080	12.7±0.4 .500	6.5±0.35 .256	0.95±0.3 .037	31	—	33	95	0199001401 0199016051	—	Figure 34
2643168351	2	78mm 3.060	88.9±1.8 3.500	78.2±1.5 3.080	28.6±0.8 1.125	6.5±0.35 .256	0.95±0.3 .037	70	—	75	215	0199001401 0199016551	—	Figure 35

** This dimension may be modified to suit specific applications.*
*** Bold part numbers designate preferred parts.*
^ Part does not have clip slots as shown in figure.
[1] Guaranteed Z Min is Z Typ -20%

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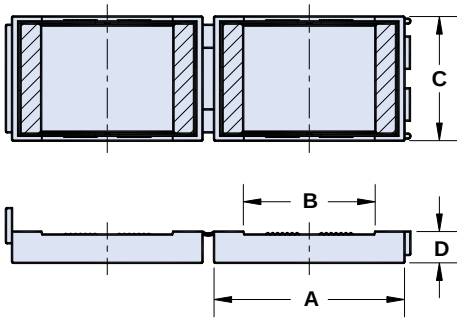
Flat Cable Snap-its

Flat Cable Snap-its can accommodate flat cable widths up to 2.550 inches. These parts are available in 31 and 43 material which can suppress frequencies up to 500 MHz.

The polypropylene case has a flammability rating of UL 94-V0.

- *Cores are controlled for impedance limits only. They are tested for impedance with a single turn, using a Hewlett Packard HP 4193A Vector Impedance Meter.*
- *For impedance vs. frequency curves for these parts, see Figures 1-6.*
- *For any flat cable snap-it requirement not listed in the catalog, please contact our customer service group for availability and pricing.*
- *The Expanded Cable and Connector EMI Suppressor Kit (part number 0199000005) contains a selection of these suppression cores. See page 92.*



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

Part Number	Cable Width	A	B	C	D	Typical Impedance(Ω) [1]			Z, R_s, X_L vs. Frequency Curve
						10 MHz	25 MHz	100 MHz	
0443166651	**34 Max.** 1.330 Max.	**49.5** 1.950	**34.4** 1.350	**32.3** 1.272	**8.1** .320	–	96	225	Figure 1
0431163951	**52 Max.** 2.030 Max.	**67.8** 2.670	**52.1** 2.050	**32.3** 1.272	**8.1** .320	44	94	235	Figure 2
0443163951	**52 Max.** 2.030 Max.	**67.8** 2.670	**52.1** 2.050	**32.3** 1.272	**8.1** .320	–	88	225	Figure 3
0431164051	**65 Max.** 2.550 Max.	**80.8** 3.180	**65.3** 2.570	**32.3** 1.272	**8.1** .320	40	81	225	Figure 4
0443164051	**65 Max.** 2.550 Max.	**80.8** 3.180	**65.3** 2.570	**32.3** 1.272	**8.1** .320	–	75	215	Figure 5

[1] Guaranteed Z Min is Z Typ -20%