

Chip Beads (2533121018Y10)



Part Number: 2533121018Y10 MULTI-LAYER CHIP BEAD

Part Number System: Example 2512063017Y1

25	1206	301	7	Υ	1		
Chip	Package	Impedance	Packaging	Material	Current Code		
Bead	Size	Code	Code	Code	0 < 1.0A		
Code	Code	300 Ω	6= Bulk Packed	Y = Standard Signal Speed	1 ≥ 1.0A < 2	2.0A	
		7:	= Taped and Reeled 7" Reel	Z = High Signal Speed	$3 \ge 3.0A < 4$	1.0A	
		8=	Taped and Reeled 13" Reel	H = GHz Speed	ETC		

Fair-Rite offers a broad selection of cost effective multi-layer chip beads to suppress conducted EMI signals. Chip beads can be used in an array of devices such as cellular phones, computers, laptops, pagers, etc. The small package sizes accommodate automated placements and allow for a dense packaging of circuit boards.

Chip Beads are available in standard, high and GHz signal speeds.

Recommended Soldering Profile

Packaging Options:

-All multi-layer chip beads are supplied taped and reeled, if required bulk packed chip beads can be provided.

The suggested land patterns are in accordance to the latest revision of IPC-7351.

	cc	omponent d	imensions	*		L		Tape	Pitch	Parts/	Parts/		
EIA Size (Metric Size)	Α	В	С	D	Wt (g)	V	W(ref)	X	Υ	Width (mm)	(mm)	7" Reel	
0402 (1005)	0.5±0.05 0.020	0.5±0.05 0.020	1.0±0.05 0.040	0.25±0.15 0.010	0.002	0.40 0.016	1.30 0.051	0.70 0.028	0.90 0.035	8	4	10000	-
0603 (1608)	0.8±0.15 0.031	0.8±0.15 0.031	1.6±0.15 0.063	0.4±0.2 0.016	0.006	0.60 0.024	1.70	1.00	1.10 0.043	8	4	4000	10000
0805 (2012)	0.9±0.2 0.035	1.25±0.2 0.049	2.0±0.2 0.079	0.5±0.3 0.020	0.01	0.60 0.024	1.90 0.075	1.50 0.059	1.30 0.051	8	4	4000	10000
1206 (3216)	1.1±0.2 0.043	1.6±0.2 0.063	3.2±0.2 0.126	0.7±0.3 0.028	0.03	1.20 0.047	2.80 0.110	1.80 0.071	1.60 0.063	8	4	3000	10000
1806 (4516)	1.6±0.2 0.063	1.6±0.2 0.063	4.5±0.2 0.177	0.7±0.3 0.028	0.06	2.00 0.079	3.90 0.154	1.80 0.071	1.90 0.075	12	8	2000	10000
1812 (4532)	1.5±0.2 0.059	3.2±0.2 0.126	4.5±0.2 0.177	0.7±0.3 0.028	0.09	2.00 0.079	3.90 0.154	3.40 0.134	1.90 0.075	12	8	1000	5000
1813 (4532)	2.3±0.25 0.091	3.2±0.25 0.126	4.5±0.25 0.177	0.7±0.3 0.028	0.14	2.00 0.079	3.90 0.154	3.40 0.134	1.90 0.075	12	8	-	2500
2218 (5650)	1.8±0.25 0.071	5.08±0.25 0.200	5.59±0.51 0.220	0.76±0.35 0.030	0.21	3.00 0.118	6.10 0.240	5.60 0.220	3.10 0.122	12	8	-	2000
2219 (5650)	1.97±0.25 0.071	5.08±0.25 0.200	5.59±0.51 0.220	0.76±0.35 0.030	0.23	3.00 0.118	6.10 0.240	5.60 0.220	3.10 0.122	12	8	-	2000
2220 (5650)	3.2±0.25 0.126	5.08±0.25 0.200	5.59±0.51 0.220	0.76±0.35 0.030	0.38	3.00 0.118	6.10 0.240	5.60 0.220	3.10 0.122	12	8	-	2000
3312 (8530)	2.28±0.2 0.090	3.05±0.2 0.120	8.5±0.2 0.335	1.09±0.4 0.043	0.25	6.00 0.236	9.50 0.374	3.40 0.134	3.60 0.142	16	8	-	2500

^{*} Fair-Rite sizes "1813", "2218" and "2219" are non standard thicknesses (A dimension).

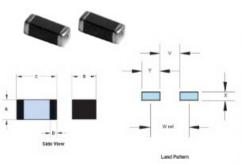
Alternate Packaging / Reel Sizes, when available, are special order.

Weight: 0.25 (g)

Package Size: 3312 (8530)

Dim	mm	mm tol	noi	nominal inch		inch misc	;.
A	2.28	±0.2	0.0	90			
В	3.05	±0.2	0.1	20			
С	8.5	±0.2	0.3	35			
D	1.09	±0.4	0.0	43			
Land Pa	atterns					•	
V		W		X	Y		Z
6.00		9.50		3.40	3.	60	
(0.236")	(0.374")		(0.134")	(0	0.142")	_

Reel Information									
Tape Width mm	Pitch mm	Parts 7"	Reel	Parts	13"	Reel	Parts	14"	Reel
16	8	-		2500					



						Land Patterns					Reel Infe	ormation	
Pkg. Size	A	В	C	D	(g)	>	W (ref)	×	>	Tape Width mm	Pitch mm	Parts 7" Reel	Parts 13" Reel
0402 (1005)	0.010.00	0.5±0.05 0.020	1.0±0.05 0.040	0.25±0.15 0.010	0.002	0.40 0.016	1.30 0.051	0.70 0.028	0.90 0.035	8	4	10000	-
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Chart Legend + Test frequency

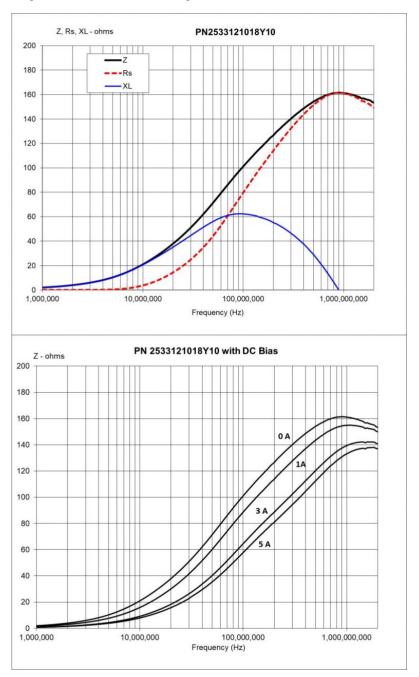
Typical Impedance (Ω)							
50 MHz	71						
100 MHz ⁺	100 +/- 25%						
500 MHz	154						
1000 MHz ⁺	-						

^{**} For Land Patterns: Fair-Rite's B dimension corresponds to the Land Pattern X dimension

^{**} For Land Patterns: Fair-Rite's C dimension corresponds to the Land Pattern W dimension

Electrical Pro	perties
Max DCR (Ω)	0.004
Max Current (mA)	10000

The impedance values listed are typical values. The nominal impedance with a \pm -25% tolerance is specified for the \pm marked 100 MHz. Chip beads are measured for impedance on the HP 4291A and fixture HP 16192A. Chip beads are 100% tested for impedance and dc resistance.



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