

Chip Beads (2533121018Y10)



Part Number: 2533121018Y10

MULTI-LAYER CHIP BEAD



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.

	component dimensions *				L	and Pat	terns **		Tape	Pitch	Parts/	Parts/	
EIA Size (Metric Size)	Α	В	С	D	Wt (g)	V	W(ref)	Х	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 0.067	1.00 0.039	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.

<u>Weight:</u> 0.25 (g)

Package Size: 3312 (8530)

Dim	mm	mm tol	nominal inch	inch misc.
A	2.28	±0.2	0.090	
В	3.05	±0.2	0.120	
С	8.5	±0.2	0.335	_
D	1.09	±0.4	0.043	ı

Reel Information							
- I -		Parts 7"	Parts 13"	Parts			
Width mm	mm	Reel	Reel	14" Reel			
16	8	-	2500	_			

					_		
Lanc	d Patt	terns					
V		W		X		Y	Z
6.00		9.50		3.40		3.60	
(0.23)	36")	(0.37)	4")	(0.134")	(0.142")	-

- (9		
	_		- v	-
				T
1	Side View	-	West.	-
			Land Part	em

						Land Patterns					Reel Inf	ormation	
			С				(ref)		٧	Tape Width mm	Pisch	Parts 7" Reel	Parts 13" Reel
0402 (1005)		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	1.5±0.15 0.063	0.4±0.2 0.016	0.006	0.00	1.70 0.067	1.00 0.039	1.10 0.043	8	4	4000	10000
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Chart Legend

+ Test frequency

Typical Impedance (Ω)				
50 MHz	71			
100 MHz ⁺	100 +/- 125%			
500 MHz	154			
1000 MHz ⁺	-			

Electrical Properties				
Max DCR (Ω)	0.004			

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

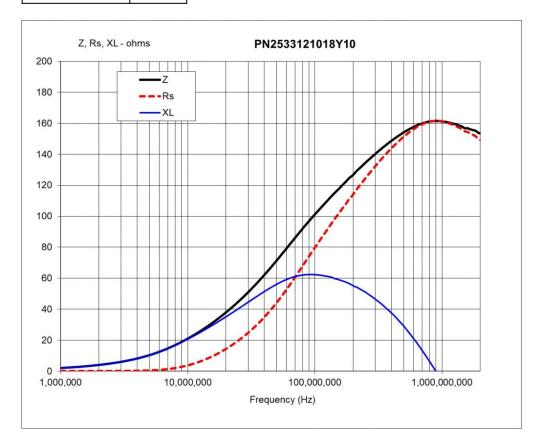
^{**} For Land Patterns: Fair-Rite's C dimension corresponds to the Land Pattern W dimension

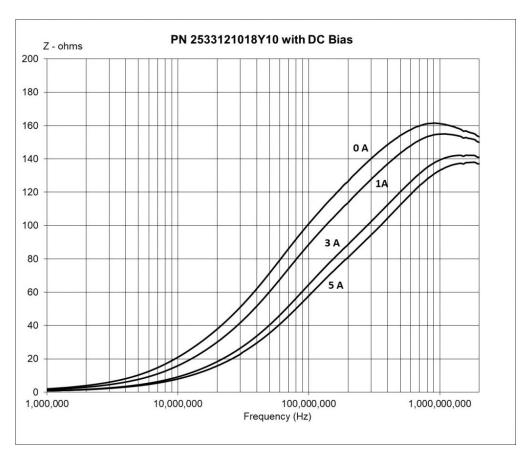
Electrical Properties					
Max Current (mA)	10000				

The impedance values listed are typical values. The nominal impedance with a \pm 100 keV tolerance is specified for the \pm 25% tolerance is specified for the \pm 291A and fixture HP 16192A.

Chip beads are 100% tested for impedance and dc resistance.

Typical Impendance (Ω)				
50 MHz	70			
100 MHz ⁺	100			
500 MHz	150			
1000 MHz ⁺	160			





CSV Download

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