

Chip Beads (2504024717H0)



Part Number: 2504024717H0

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.

	CC	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)		13" 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	1	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: 0.002 (g)

Package Size: 0402 (1005)

Dim	mm	mm tol	nominal inch	inch misc.
A	0.5	±0.05	0.02	
В	0.5	±0.05	0.02	
С	1	±0.05	0.04	_
D	0.25	±0.15	0.01	_

ען	0.45	±0.13	0.01		_		
Land	l Pati	terns					
V		W		X	7	Y	Z
0.40		1.30		0.70	(0.90	
(0.0)	16")	(0.05	1")	(0.028")) ((0.035")	-

Reel Information					
Tape Width mm	Pitch mm		Parts 13" Reel	Parts 14" Reel	
8	4	10000	_	_	

	Size	,
	0402 (1005)	0.0
- v -	0603 (1608)	0.0
	0805 (2012)	0.9
	1206 (3216)	1.1a 0.0
-0 - West.	1806 (4516)	1.6± 0.0
Side Yew Land Patient	1812 (4532)	1.5a 0.0

							Land Pa	itterns			Reel Int	formation	
									Υ	Tape Width mm		Parts T Roel	Parts 13" Reel
0402 (1005)	0.5±0.05 0.020	0.5±0.05 0.020	1.0±0.06 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	1.8±0.15 0.063	0.4±0.2 0.016	0.006	0.60	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	210			
100 MHz ⁺	470			
500 MHz	1390			
1000 MHz ⁺	-			

Electrical Prop	erties
Max DCR	1.2
(Ω)	

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

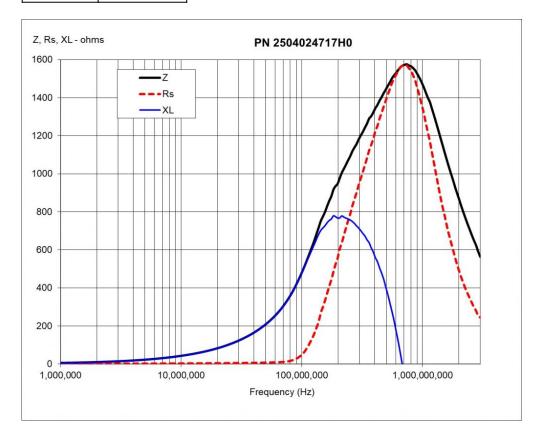
^{**} For Land Patterns: Fair-Rite's C dimension corresponds to the Land Pattern W dimension

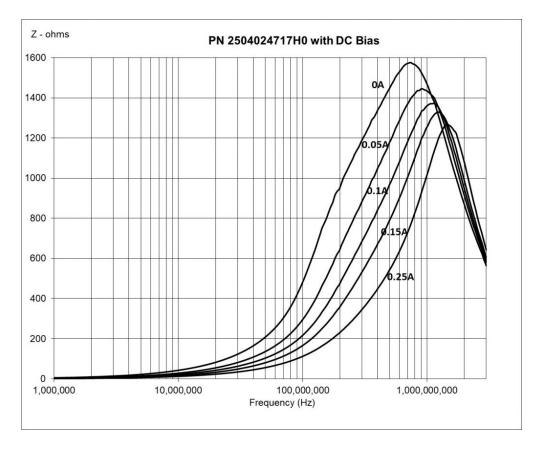
Electrical Properties					
Max Cı (mA)	ırrent	250			

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	210			
100 MHz ⁺	470			
500 MHz	1390			
1000 MHz	1900 ±40%			





CSV Download

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