

## Chip Beads (2504024717H0)



Part Number: 2504024717H0

MULTI- LAYER CHIP BEAD

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	300 Ω	6= Bulk Packed Taped and Reeled 7" Reel	Y = Standard Signal Speed Z = High Signal Speed	1 ≥ 1.0A < 2.0A 3 > 3.0A < 4.0A
			Taped and Reeled 13" Reel	H = GHz Speed	ETC 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.

	component dimensions *					Land Patterns **				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	1	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	1	2500

<sup>\*</sup> Fair-Rite sizes "1813", "2218" and "2219" are non standard thicknesses (A dimension).

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

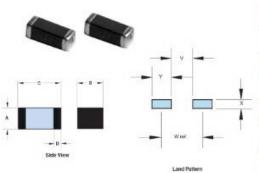
Weight: 0.002 (g)

Package Size: 0402 (1005)

Dim	mm	mm tol	nominal inch	inch misc.
Δ	0.5	±0.05	0.02	
D	0.5	<b>.</b>		_
В	0.5	±0.05	0.02	_
C	l	±0.05	0.04	_
D	0.25	$\pm 0.15$	0.01	

Land Patter	ns			
V	W	X	Y	Z
0.40	1.30	0.70	0.90	
(0.016")	(0.051")	(0.028")	(0.035")	-

Reel Information								
Tape Width	Pitch	Parts 7"	Parts 13"	Parts 14"				
mm	mm	Reel	Reel	Reel				
8	4	10000						



						Land Patterns				Reel Information			
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## **Chart Legend**

+ Test frequency

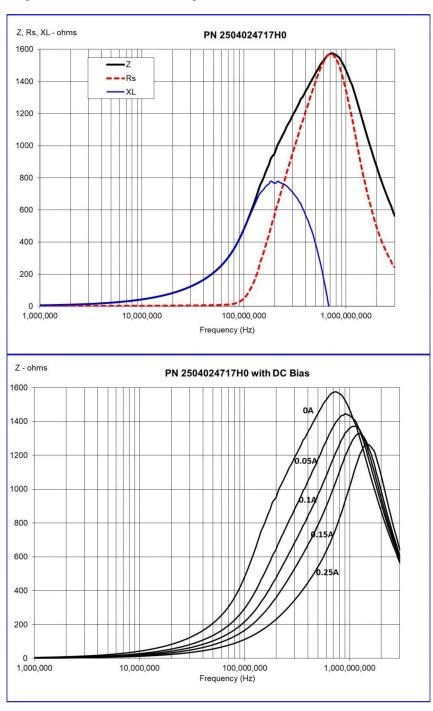
<sup>\*\*</sup> For Land Patterns: Fair-Rite's B dimension corresponds to the Land Pattern X dimension

<sup>\*\*</sup> For Land Patterns: Fair-Rite's C dimension corresponds to the Land Pattern W dimension

Typical Impeda	$nce(\Omega)$
50 MHz	210
100 MHz <sup>+</sup>	470
500 MHz	1390
1000 MHz <sup>+</sup>	-

Electrical Proper	rties
Max DCR (Ω)	1.2
Max Current (mA)	250

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.



CSV Download

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