

Chip Beads (2522195518G4)



Part Number: 2522195518G4

MULTI-LAYER CHIP BEAD

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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.

	co	omponent d	imensions	*		L	and Pat	terns **		Таре	Pitch	Parts/	Parts/	
EIA Size (Metric Size)	Α	В	С	D	Wt (g)	v	W(ref)	x	Y	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	-	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).

** 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

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

<u>Weight:</u> 0.23 (g)

Package Size: 2219 (5650)

Dim	mm	mm tol	ol nominal inch inch misc.] [Reel Information														
А	1.97	±0.25	0.078		_				Tape		Pitcl	h	I	Par	s 7	7"	Pa	arts	s 1	3"	Pa	rts	
В	5.08	±0.25	0.200		_				Width	mm	mm		H	Ree	1		R	eel			14	" R	eel
С	5.59	±0.51	0.220		_			1	12		8		-				20)00)		_		
D	0.76	±0.35	0.030		_			1															
Land	l Pati	terns										Pkg. Size		вс		W1. (g)	v	and Pattern W 3 (ref)	s Y	Tape Width mm	Reel In Pisch mm	Parts 7 ⁻ Reel	Parts 13" Reel
V		W		Х		Y	Z			v -	-	0603 (1608)	0.031 0.0	x0.05 020 1.0x0.0 0.040 x0.15 0.051 0.063	5 0.4±0.2 0.016	0.002		1.30 0. 0.051 0.0 1.70 1/ 0.067 0.0	28 0.035		4	10000 4000	- 10000
3.00		6.10		5.60		3.10						1206 (3216)	1.1±0.2 1.0 0.043 0	5+0.2 2.0+03 049 0.079 +0.2 3.2+03 063 0.126	0.7±0.3 0.028		0.024	1.90 1.1 0.075 0.0 2.80 1.1 0.110 0.0	69 0.05	8	4	4000 3000	10000
(0.1)	18")	(0.24	0")	(0.220"	')	(0.122")	-	1		Wind.				4.5±03 063 0.177 126 0.177				3.90 1. 0.154 0.0 3.90 3. 0.154 0.1			8	2000 1000	10000 5000

Chart Legend

+ Test frequency

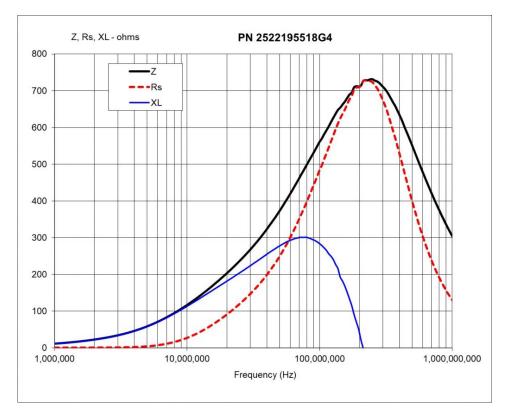
Typical Impedance (Ω)							
50 MHz	376						
100 MHz ⁺	550 +/- 25%						
500 MHz	556						
1000 MHz^+	-						
Electrical Properties							
Max DCR (Ω)	0.035						

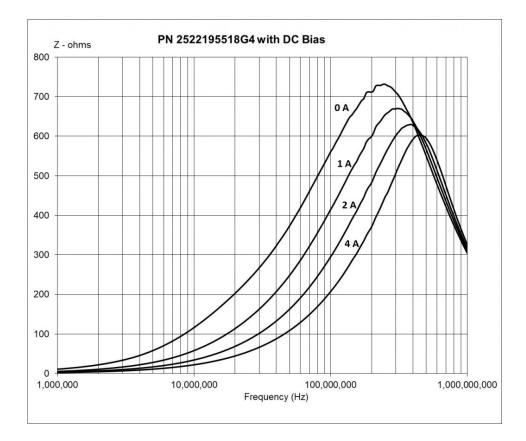
Electrical Properties					
Max Current (mA)	4000				

The impedance values listed are typical values. The nominal impedance with a +/- 25% tolerance is specified for the + 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.

Typical Impendance (Ω)						
50 MHz	370					
100 MHz^+	550					
500 MHz	550					
1000 MHz ⁺	300					





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