Fair-Rite Products Corp.
Your Signal Solution®

Chip Beads (2504023017Y0)

Part Number: 2504023017Y0

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.

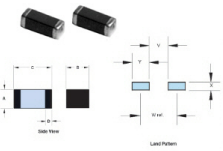
Weight: 0.002 (g)

Package Size: 0402 (1005)

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

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

Land Patterns				
V	W	X	Y	Z
0.40 (0.016”)	1.30 (0.051”)	0.70 (0.028”)	0.90 (0.035”)	–



Pkg. Size	A	B	C	D	Wt. (g)	Land Patterns				Reel Information			
						V	W (ref)	X	Y	Tape Width mm	Pitch mm	Parts 7" Reel	Parts 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

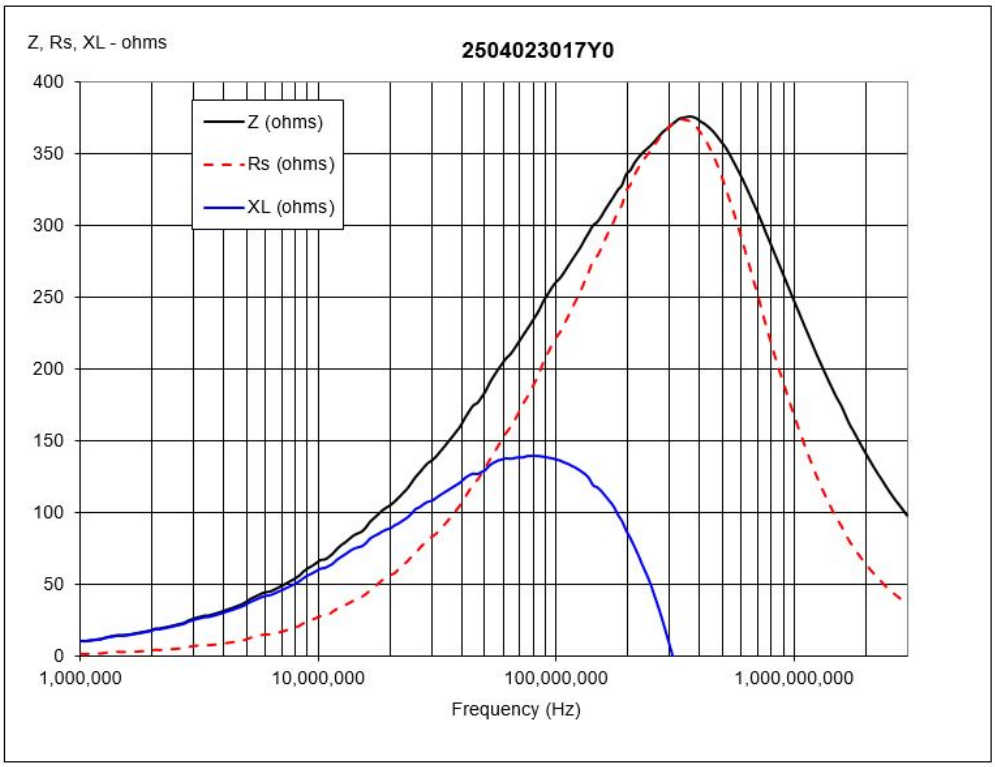
Chart Legend
+ Test frequency

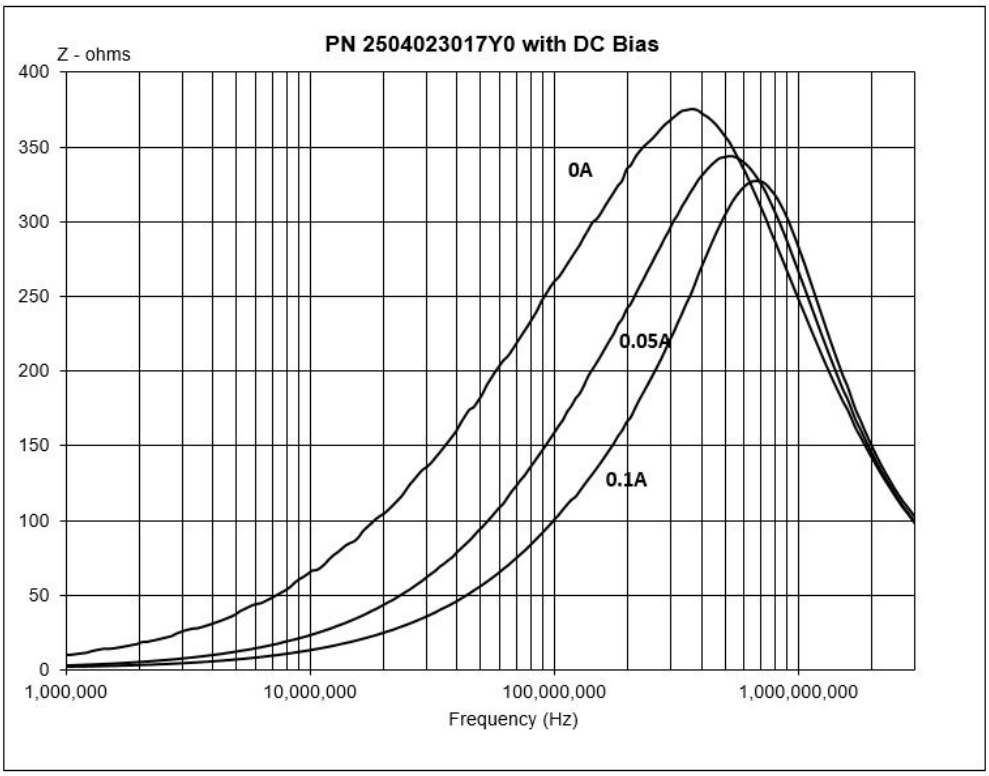
Typical Impedance (Ω)	
50 MHz	184
100 MHz^{+}	300 ±25%
500 MHz	356
1000 MHz^{+}	-

Electrical Properties	
Max DCR (Ω)	0.75
Max Current (mA)	100

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	234
100 MHz^{+}	300 ±25%
500 MHz	370
1000 MHz^{+}	–





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