东莞市振宝佳电子有限公司
Dongguan Zhenbaojia Electronics Co., Ltd.

承　认　书

客 户 名 称：　/

Customer Name:　/

产 品 名 称：　叠层片式铁氧体磁珠

Product Name:　Multilayer Chip Ferrite Bead

拟制 Draft	审核 Review	批准 Approve	日期 Date
陈绮琪 Chen Yiqi	张肖羽 Zhang Xiaoyu	陈锡红 Chen Xihong	2026-09-30

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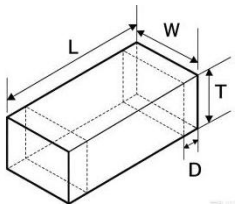
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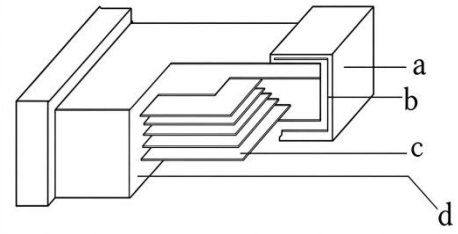
1、外形尺寸与内部结构 Dimensions and internal structure

1.1 外形尺寸 Dimensions

单位Unit：mm（inch）

外形图 Outline Drawing	规格尺寸 Size	L	W	T	D
	1608 (0603)	1.60±0.15 (0.063±0.006)	0.80±0.15 (0.031±0.006)	0.80±0.15 (0.031±0.006)	0.30±0.15 (0.012±0.006)
	2012 (0805)	2.00±0.20 (0.079±0.008)	1.20±0.20 (0.047±0.008)	0.90±0.20 (0.035±0.008)	0.50±0.30 (0.020±0.012)
	3216 (1206)	3.20±0.20 (0.126±0.008)	1.60±0.20 (0.063±0.008)	0.90±0.20 (0.035±0.008)	0.50±0.30 (0.020±0.012)
	321611 (1206)	3.20±0.20 (0.126±0.008)	1.60±0.20 (0.063±0.008)	1.10±0.20 (0.043±0.008)	0.50±0.30 (0.020±0.012)
	3225 (1210)	3.20±0.20 (0.126±0.008)	2.50±0.20 (0.098±0.008)	1.30±0.20 (0.051±0.008)	0.50±0.30 (0.020±0.012)
	4532 (1812)	4.50±0.20 (0.180±0.008)	3.20±0.20 (0.126±0.008)	1.50±0.20 (0.060±0.008)	0.50±0.30 (0.020±0.012)
注：括号内的数值，其单位为英寸。 Note: The values in parentheses are in inches.					

1.2 内部结构 Internal structure

结构图 Structure Diagram	结构说明 Construction Description	材料 Material
	a.镀层	镍层一锡层 Ni-Sn
	b.端电极 Terminal electrode	银 Ag
	c.内电极 Inner electrode	银 Ag
	d.磁体 Magnet	铁氧体电感：镍铜锌体系 Ni-Cu-Zn

2、产品型号命名 Product Model Naming

M ZBJ PB 3216 L 601 T - 3A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

序号	定义
①	质量等级：民品 Commercial Grade
②	公司代号：振宝佳 Company Code: zhenbaojia
③	产品类型：Product Type PB：大电流型磁珠 PB: High-Current Ferrite Bead RZ：通用型磁珠 General-Purpose Ferrite Bead
④	产品尺寸（L×W×T）（mm）：Product Size（L×W×T）（mm） 四位数字表示；前两位数字表示长度；后两位数字表示宽 The dimensions are indicated by a four-digit number, where the first two digits denote the length and the last two digits denote the width. 示例 Example 3216=3.20×1.60×0.90mm。
⑤	材料代号 Material Code:L 、M
⑥	阻值（Impedance）：示例 Example 601=60×10^1=600Ω 102=10×10^2=1000Ω
⑦	包装方式：Packaging Style T：编带包装；B：散包装。T: tape packaging; B: bulk packaging
⑧	额定电流 Ir（A）MAX

3、电性能参数表 Electrical Specifications Table

3.1 相关说明 Relevant Notes

*阻抗测试条件：E4982A 或等同仪器，测试电压 50mV±5mV，温度 25℃~27℃，湿度 30%～70%RH

Impedance Test Conditions: E4982A or equivalent instrument, test voltage 50mV±5mV, temperature 25℃~27℃, humidity 30%~70% RH

*直流电阻测试条件：RM3542A 或等同仪器，温度 15℃~35℃，湿度 25%～75%

DC Resistance Test Conditions: RM3542A or equivalent instrument, temperature 15℃~35℃, humidity 25%～75% RH

*额定电流：施加额定电流，产品表面温升不超过 40℃。

Rated Current: Apply the rated current, and the product's surface temperature rise shall not exceed 40℃.

*工作温度 Operating Temperature：-55~ 125℃

3.2、参数表 Specifications

3.2.1 大电流型参数表 Hihg Current Specifications

1608 Type

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR mΩ Max	最大额定电I A
MZBJPB1608L000T-3A	0～15	100	50	20	3
MZBJPB1608L000T-6A	0～15	100	50	10	6
MZBJPB1608L110T-3A	7～15	100	50	20	3
MZBJPB1608L110T-6A	7～15	100	50	10	6
MZBJPB1608L190T-3A	12～25	100	50	30	3
MZBJPB1608L190T-6A	12～25	100	50	10	6
MZBJPB1608L220T-3A	22±25%	100	50	30	3
MZBJPB1608L220T-4A	22±25%	100	50	20	4
MZBJPB1608L260T-3A	26±25%	100	50	30	3
MZBJPB1608L260T-4A	26±25%	100	50	20	4
MZBJPB1608L300T-3A	30±25%	100	50	30	3
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR mΩ Max	最大额定电I A

MZBJPB1608L300T-4A	30±25%	100	50	20	4
MZBJPB1608L310T-3A	31±25%	100	50	30	3
MZBJPB1608L310T-4A	31±25%	100	50	20	4
MZBJPB1608L500T-1A5	50±25%	100	50	100	1.5
MZBJPB1608L500T-3A	50±25%	100	50	40	3
MZBJPB1608L600T-3A	60±25%	100	50	40	3
MZBJPB1608L600T-1A5	60±25%	100	50	100	1.5
MZBJPB1608L800T-1A5	80±25%	100	50	100	1.5
MZBJPB1608L800T-2A5	80±25%	100	50	60	2.5
MZBJPB1608L101T-1A4	100±25%	100	50	100	1.4
MZBJPB1608L101T-2A5	100±25%	100	50	60	2.5
MZBJPB1608L101T-3A	100±25%	100	50	50	3.0
MZBJPB1608L121T-1A3	120±25%	100	50	140	1.3
MZBJPB1608L121T-2A	120±25%	100	50	65	2.0
MZBJPB1608L151T-1A2	150±25%	100	50	150	1.2
MZBJPB1608L151T-1A5	150±25%	100	50	70	1.5
MZBJPB1608L181T-1A2	180±25%	100	50	150	1.2
MZBJPB1608L181T-1A5	180±25%	100	50	90	1.5
MZBJPB1608L221T-1A2	220±25%	100	50	180	1.2
MZBJPB1608L221T-1A5	220±25%	100	50	120	1.5
MZBJPB1608L301T-1A2	330±25%	100	50	200	1.2
MZBJPB1608L301T-1A5	330±25%	100	50	150	1.5
MZBJPB1608L501T-1A	500±25%	100	50	250	1.0
MZBJPB1608L501T-1A3	500±25%	100	50	180	1.3
MZBJPB1608L501T-1A5	500±25%	100	50	130	1.5
MZBJPB1608L601T-1A	600±25%	100	50	250	1.0
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR mΩ Max	最大额定电I A
MZBJPB1608L601T-1A3	600±25%	100	50	180	1.3

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MZBJPB1608L801T-0A5	800±25%	100	50	300	0.5
MZBJPB1608L801T-0A8	800±25%	100	50	300	0.8
MZBJPB1608L102T-0A7	1000±25%	100	50	300	0.7
MZBJPB1608L102T-0A5	1000±25%	100	50	350	0.5
MZBJPB1608L122T-0A5	1000±25%	100	50	350	0.5

2012 Type

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR mΩ Max	最大额定电流I A
MZBJPB2012L000T-3A	0～15	100	50	20	3
MZBJPB2012L000T-6A	0～15	100	50	10	6
MZBJPB2012L100T-6A	7～19	100	50	10	6
MZBJPB2012L110T-3A	7～19	100	50	20	3
MZBJPB2012L110T-6A	7～19	100	50	10	6
MZBJPB2012L190T-3A	12～25	100	50	20	3
MZBJPB2012L190T-6A	12～25	100	50	10	6
MZBJPB2012L220T-3A	22±25%	100	50	40	3
MZBJPB2012L220T-6A	22±25%	100	50	10	6
MZBJPB2012L260T-3A	26±25%	100	50	40	3
MZBJPB2012L260T-6A	26±25%	100	50	10	6
MZBJPB2012L300T-3A	30±25%	100	50	40	3
MZBJPB2012L300T-6A	30±25%	100	50	10	6
MZBJPB2012L310T-3A	31±25%	100	50	40	3
MZBJPB2012L310T-6A	31±25%	100	50	10	6
MZBJPB2012L500T-3A	50±25%	100	50	50	3
MZBJPB2012L500T-4A	50±25%	100	50	30	4
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR mΩ Max	最大额定电流I A
MZBJPB2012L600T-3A	60±25%	100	50	50	3
MZBJPB2012L600T-4A	60±25%	100	50	30	4

MZBJPB2012L800T-3A	80±25%	100	50	60	3
MZBJPB2012L800T-4A	80±25%	100	50	40	4
MZBJPB2012L800T-5A	80±25%	100	50	20	5
MZBJPB2012L800T-6A	80±25%	100	50	18	6
MZBJPB2012L101T-2A	100±25%	100	50	100	2
MZBJPB2012L101T-3A	100±25%	100	50	60	3
MZBJPB2012L101T-4A	100±25%	100	50	45	4
MZBJPB2012L101T-5A	100±25%	100	50	20	5
MZBJPB2012L121T-2A	120±25%	100	50	100	2
MZBJPB2012L121T-3A	120±25%	100	50	60	3
MZBJPB2012L121T-4A	120±25%	100	50	45	4
MZBJPB2012L121T-5A	120±25%	100	50	20	5
MZBJPB2012L151T-2A	150±25%	100	50	100	2
MZBJPB2012L151T-3A	150±25%	100	50	60	3
MZBJPB2012L181T-2A	180±25%	100	50	120	2
MZBJPB2012L181T-3A	180±25%	100	50	60	3
MZBJPB2012L201T-3A	120±25%	100	50	70	3
MZBJPB2012L221T-2A	220±25%	100	50	120	2
MZBJPB2012L221T-3A	220±25%	100	50	70	3
MZBJPB2012L301T-2A	300±25%	100	50	120	2
MZBJPB2012L301T-3A	300±25%	100	50	70	3
MZBJPB2012L331T-2A	330±25%	100	50	120	2
MZBJPB2012L331T-3A	330±25%	100	50	70	3
MZBJPB2012L501T-1A5	500±25%	100	50	200	1.5
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电DCR mΩ Max	最大额定电I A
MZBJPB2012L501T-2A	500±25%	100	50	100	2
MZBJPB2012L501T-3A	500±25%	100	50	70	3
MZBJPB2012L601T-1A5	600±25%	100	50	200	1.5

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MZBJPB2012L601T-2A	600±25%	100	50	100	2
MZBJPB2012L601T-3A	600±25%	100	50	70	3
MZBJPB2012L801T-1A	800±25%	100	50	220	1
MZBJPB2012L801T-1A5	800±25%	100	50	120	1.5
MZBJPB2012L102T-1A	1000±25%	100	50	220	1
MZBJPB2012L102T-1A5	1000±25%	100	50	120	1.5
MZBJPB2012L122T-0A8	1000±25%	100	50	250	0.8

3216 Type

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电DCR mΩ Max	最大额定电I A
MZBJPB3216L000T-4A	0～15	100	50	40	4
MZBJPB3216L000T-6A	0～15	100	50	10	6
MZBJPB3216L110T-4A	7～15	100	50	40	4
MZBJPB3216L110T-6A	7～15	100	50	10	6
MZBJPB3216L190T-3A	12～25	100	50	40	3
MZBJPB3216L190T-6A	12～25	100	50	10	6
MZBJPB3216L260T-3A	26±25%	100	50	40	3
MZBJPB3216L260T-6A	26±25%	100	50	10	6
MZBJPB3216L300T-3A	30±25%	100	50	40	3
MZBJPB3216L300T-4A	30±25%	100	50	30	4
MZBJPB3216L300T-6A	30±25%	100	50	10	6
MZBJPB3216L310T-3A	31±25%	100	50	40	3
MZBJPB3216L310T-6A	31±25%	100	50	10	6
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电DCR mΩ Max	最大额定电I A
MZBJPB3216L400T-3A	40±25%	100	50	40	3
MZBJPB3216L500T-3A	50±25%	100	50	40	3
MZBJPB3216L500T-4A	50±25%	100	50	30	4
MZBJPB3216L500T-6A	50±25%	100	50	15	6

MZBJPB3216L600T-3A	60±25%	100	50	40	3
MZBJPB3216L600T-4A	60±25%	100	50	30	4
MZBJPB3216L600T-6A	60±25%	100	50	20	6
MZBJPB3216L800T-3A	80±25%	100	50	60	3
MZBJPB3216L800T-4A	80±25%	100	50	35	4
MZBJPB3216L800T-6A	80±25%	100	50	20	6
MZBJPB3216L101T-3A	100±25%	100	50	60	3
MZBJPB3216L101T-4A	100±25%	100	50	35	4
MZBJPB3216L101T-6A	100±25%	100	50	20	6
MZBJPB3216L121T-2A	120±25%	100	50	120	2
MZBJPB3216L121T-2A5	120±25%	100	50	80	2.5
MZBJPB3216L121T-3A	120±25%	100	50	60	3
MZBJPB3216L121T-4A	120±25%	100	50	35	4
MZBJPB3216L121T-6A	120±25%	100	50	20	6
MZBJPB3216L151T-2A5	150±25%	100	50	65	2.5
MZBJPB3216L151T-3A	150±25%	100	50	45	3
MZBJPB3216L181T-2A5	180±25%	100	50	65	2.5
MZBJPB3216L181T-3A	180±25%	100	50	55	3
MZBJPB3216L221T-2A5	220±25%	100	50	65	2.5
MZBJPB3216L221T-3A	220±25%	100	50	55	3
MZBJPB3216L301T-2A	300±25%	100	50	150	2
MZBJ3216L301T-2A5	300±25%	100	50	65	2.5

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电DCR mΩ Max	最大额定电I A
MZBJPB3216L301T-3A	300±25%	100	50	60	3
MZBJPB3216L401T-2A	400±25%	100	50	150	2
MZBJPB3216L401T-2A5	400±25%	100	50	75	2.5
MZBJPB3216L401T-3A	400±25%	100	50	70	3
MZBJPB3216L501T-2A	500±25%	100	50	180	2

MZBJPB3216L501T-2A5	500±25%	100	50	150	2.5
MZBJPB3216L501T-3A	500±25%	100	50	80	3
MZBJPB3216L601T-2A	600±25%	100	50	180	2.0
MZBJPB3216L601T-2A5	600±25%	100	50	150	2.5
MZBJPB3216L601T-3A	600±25%	100	50	80	3
MZBJPB3216L801T-1A5	800±25%	100	50	200	1.5
MZBJPB3216L801T-2A	800±25%	100	50	120	2
MZBJPB3216L102T-1A5	1000±25%	100	50	250	1.5
MZBJPB3216L102T-2A	1000±25%	100	50	120	2
MZBJPB3216L122T-1A5	1200±25%	100	50	350	1.5

3225 Type

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻 mΩ Max	最大额定电流I A
MZBJPB3225L000T-5A	0～15	100	50	30	5
MZBJPB3225L000T-6A	0～15	100	50	15	6
MZBJPB3225L000T-10A	0～15	100	50	5	10
MZBJPB3225L110T-5A	7～15	100	50	30	5
MZBJPB3225L110T-6A	7～15	100	50	15	6
MZBJPB3225L110T-10A	7～15	100	50	5	10
MZBJPB3225L150T-5A	9～21	100	50	30	5
MZBJPB3225L190T-5A	12～25	100	50	30	5
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻 mΩ Max	最大额定电流I A
MZBJPB3225L190T-6A	12～25	100	50	15	6
MZBJPB3225L260T-5A	26±25%	100	50	30	5
MZBJPB3225L260T-6A	26±25%	100	50	15	6
MZBJPB3225L310T-5A	31±25%	100	50	30	5
MZBJPB3225L310T-6A	31±25%	100	50	15	6
MZBJPB3225L600T-5A	60±25%	100	50	30	5

MZBJPB3225L600T-6A	60±25%	100	50	15	6
MZBJPB3225L800T-5A	80±25%	100	50	30	5
MZBJPB3225L800T-6A	80±25%	100	50	20	6
MZBJPB3225L101T-4A	100±25%	100	50	60	4
MZBJPB3225L101T-6A	100±25%	100	50	20	6
MZBJPB3225L121T-4A	120±25%	100	50	60	4
MZBJPB3225L121T-5A	120±25%	100	50	30	5
MZBJPB3225L151T-4A	150±25%	100	50	80	4
MZBJPB3225L181T-3A	180±25%	100	50	80	3
MZBJPB3225L221T-3A	220±25%	100	50	80	3
MZBJPB3225L221T-4A	220±25%	100	50	40	4
MZBJPB3225L301T-3A	300±25%	100	50	80	3
MZBJPB3225L301T-4A	300±25%	100	50	45	4
MZBJPB3225L501T-3A	600±25%	100	50	100	3
MZBJPB3225L601T-2A	600±25%	100	50	180	2
MZBJPB3225L601T-3A	600±25%	100	50	100	3
MZBJPB3225L102T-2A	1000±25%	100	50	160	2
MZBJPB3225L102T-2A5	1000±25%	100	50	100	2.5

4532 Type

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻 mΩ Max	最大额定电流I A
MZBJPB4532L000T-6A	0～15	100	50	10	6
MZBJPB4532L000T-10A	0～15	100	50	5	10
MZBJPB4532L190T-6A	12～25	100	50	10	6
MZBJPB4532L260T-6A	26±25%	100	50	10	6
MZBJPB4532L310T-6A	31±25%	100	50	10	6
MZBJPB4532L600T-4A	60±25%	100	50	20	4

MZBJPB4532L600T-6A	60±25%	100	50	10	6
MZBJPB4532L800T-4A	80±25%	100	50	20	4
MZBJPB4532L800T-6A	80±25%	100	50	10	6
MZBJPB4532L101T-4A	100±25%	100	50	30	4
MZBJPB4532L101T-6A	120±25%	100	50	15	6
MZBJPB4532L121T-4A	120±25%	100	50	30	4
MZBJPB4532L121T-6A	120±25%	100	50	15	6
MZBJPB4532L151T-4A	150±25%	100	50	40	4
MZBJPB4532L221T-3A	220±25%	100	50	60	3
MZBJPB4532L221T-4A	220±25%	100	50	35	4
MZBJPB4532L301T-3A	300±25%	100	50	60	3
MZBJPB4532L301T-4A	300±25%	100	50	35	4
MZBJPB4532L601T-3A	600±25%	100	50	80	3
MZBJPB4532L601T-4A	600±25%	100	50	50	4

3.2.2 通用型参数表 General Specifecations

1608 Type

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR Ω Max	最大额定电I mA
MZBJRZ1608L000T	0～15	100	50	0.05	2000
MZBJRZ1608L090T	0～15	100	50	0.05	2000
MZBJRZ1608L110T	7～19	100	50	0.05	2000
MZBJRZ1608L150T	9～21	100	50	0.05	2000
MZBJRZ1608L190T	12～25	100	50	0.05	2000
MZBJRZ1608L260T	26±25%	100	50	0.05	2000

MZBJRZ1608L300T	30±25%	100	50	0.05	1000
MZBJRZ1608L310T	31±25%	100	50	0.05	1000
MZBJRZ1608L330T	33±25%	100	50	0.05	1000
MZBJRZ1608L600T	60±25%	100	50	0.15	400
MZBJRZ1608L700T	70±25%	100	50	0.15	400
MZBJRZ1608L800T	80±25%	100	50	0.15	400
MZBJRZ1608L101T	100±25%	100	50	0.20	300
MZBJRZ1608L121T	120±25%	100	50	0.20	300
MZBJRZ1608L151T	150±25%	100	50	0.20	300
MZBJRZ1608L181T	180±25%	100	50	0.30	300
MZBJRZ1608L221T	220±25%	100	50	0.30	300
MZBJRZ1608L301T	300±25%	100	50	0.35	200
MZBJRZ1608L501T	500±25%	100	50	0.45	200
MZBJRZ1608L601T	600±25%	100	50	0.45	200
MZBJRZ1608L801T	800±25%	100	50	0.60	200
MZBJRZ1608L102T	1000±25%	100	50	0.60	200

2012 系列（普通型磁珠）

型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR Ω Max	最大额定电I mA
MZBJRZ2012L000T	0～15	100	50	0.04	2200
MZBJRZ2012L090T	0～15	100	50	0.04	2200
MZBJRZ2012L110T	7～19	100	50	0.04	2200
MZBJRZ2012L150T	9～21	100	50	0.04	2200
MZBJRZ2012L190T	12～25	100	50	0.04	2200
MZBJRZ2012L260T	26±25%	100	50	0.05	1500
MZBJRZ2012L300T	30±25%	100	50	0.05	1500
MZBJRZ2012L310T	31±25%	100	50	0.05	1500

MZBJRZ2012L330T	33±25%	100	50	0.05	1500
MZBJRZ2012L500T	50±25%	100	50	0.10	1000
MZBJRZ2012L600T	60±25%	100	50	0.10	1000
MZBJRZ2012L700T	70±25%	100	50	0.10	1000
MZBJRZ2012L800T	80±25%	100	50	0.10	1000
MZBJRZ2012L101T	100±25%	100	50	0.15	800
MZBJRZ2012L121T	120±25%	100	50	0.15	800
MZBJRZ2012L151T	150±25%	100	50	0.18	700
MZBJRZ2012L181T	180±25%	100	50	0.18	700
MZBJRZ2012L221T	220±25%	100	50	0.20	600
MZBJRZ2012L301T	300±25%	100	50	0.20	600
MZBJRZ2012L501T	500±25%	100	50	0.30	550
MZBJRZ2012L601T	600±25%	100	50	0.30	550
MZBJRZ2012L801T	800±25%	100	50	0.35	500
MZBJRZ2012L102T	1000±25%	100	50	0.35	500

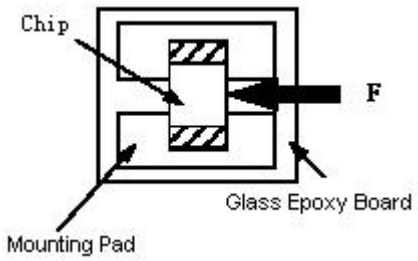
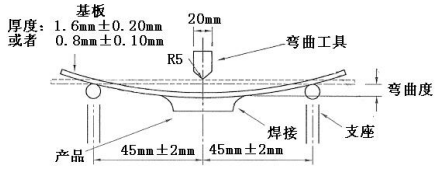
3216 系列（普通型磁珠）

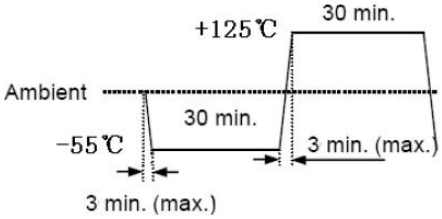
型号规格	阻抗 Ω	测试频率 MHz	测试电压 mV	直流电阻DCR Ω Max	最大额定电I mA
MZBJRZ3216L000T	0～11	100	50	0.05	2200
MZBJRZ3216L090T	0～15	100	50	0.05	2000
MZBJRZ3216L110T	7～19	100	50	0.05	2000
MZBJRZ3216L150T	9～21	100	50	0.05	2000
MZBJRZ3216L190T	12～25	100	50	0.05	2000
MZBJRZ3216L260T	26±25%	100	50	0.05	2000
MZBJRZ3216L300T	30±25%	100	50	0.05	2000
MZBJRZ3216L310T	31±25%	100	50	0.05	2000
MZBJRZ3216L500T	50±25%	100	50	0.10	1000

MZBJRZ3216L600T	60±25%	100	50	0.10	1000
MZBJRZ3216L700T	70±25%	100	50	0.10	1000
MZBJRZ3216L800T	80±25%	100	50	0.10	1000
MZBJRZ3216L101T	100±25%	100	50	0.10	1000
MZBJRZ3216L121T	120±25%	100	50	0.10	1000
MZBJRZ3216L151T	150±25%	100	50	0.15	1000
MZBJRZ3216L181T	180±25%	100	50	0.15	1000
MZBJRZ3216L221T	220±25%	100	50	0.20	800
MZBJRZ3216L301T	300±25%	100	50	0.20	800
MZBJRZ3216L501T	500±25%	100	50	0.30	600
MZBJRZ3216L601T	600±25%	100	50	0.30	600
MZBJRZ3216L801T	800±25%	100	50	0.35	600
MZBJRZ3216L102T	1000±25%	100	50	0.35	600

4、可靠性测试方法 Reliability Test Method

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
1	可焊性 Solderability	1、无可见损伤； 2、电极面 95%以上覆盖新的焊料。 1、 Free from visible damage. 2、 Coverage by fresh solder on the electrode surface shall exceed 95%.	1、预热温度：（120～150）℃ 2、预热时间：60s； 3、焊料（96.5%Sn，3.0%Ag，0.5%Cu）焊锡 4、焊锡温度：（245±3）℃ 5、浸锡深度：10mm 6、浸锡时间：（3±0.3）s 浸渍助焊剂时间：（3～5）s。 1、 Preheat Temperature: 120-150 °C 2、 Preheat Time: 60 s 3、 Solder Alloy: 96.5% Sn, 3.0% Ag, 0.5% Cu (SAC305 type) 4、 Soldering Temperature: 245±3 °C 5、 Solder Dip Depth: 10 mm 6、 Solder Dip Time: 3±0.3 s Flux Dipping Time: 3~5 s

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
2	耐焊接热 Resistance to soldering heat	1、电极面 95%以上覆盖新的焊料，无可见机械损伤； 2、阻抗变化率：≤30%。 1、 The electrode surface shall be covered by fresh solder in excess of 95%, with the surface being free from visible mechanical damage. 2、 Impedance change rate: shall not exceed 30%.	1、预热温度：（120～150）℃ 2、预热时间：60s 3、焊料（96.5%Sn，3.0%Ag，0.5%Cu）焊锡； 4、焊锡温度：（260±5）℃ 5、浸锡深度：10mm 6、浸锡时间：（10±1）s 7、浸渍助焊剂时间：（3～5）s。 1、 Preheat Temperature: 120 - 150 ° C 2、 Preheat Time: 60 s 3、 Solder Alloy: 96.5 % Sn, 3.0 % Ag, 0.5 % Cu (SAC305 type) 4、 Soldering Temperature: 260 ± 5 ° C 5、 Solder Dip Depth: 10 mm 6、 Solder Dip Time: 10 ± 1 s 7、Flux Dipping Time: 3~5 s
3	端电极强度 Termination Strength	端电极与磁体不应受损，无可见机械损伤。 Both the terminations and the magnetic body shall be free from visible mechanical damage.	1、施加力：1608 系列为 7N；2012、3216 系列为 10N；3225、4532 系列为 15N 2.保持时间：（10±1）s 1、 Applied Force: • 1608 series: 7 N • 2012 & 3216 series: 10 N • 3225 & 4532 series: 15 N 2、 Holding Time: (10 ± 1) s 
4	耐低温 Low temperature resistance	无无可见机械损伤， 阻抗变化率小于±30%。 No mechanical damage. Impedance change: within ±30%	测试温度:-55±2℃ 测试时间:1000^{+24}_{-0} h Temperature:-55±2℃ Testing time: 1000^{+24}_{-0} h
5	抗弯强度 Flexural Strength	无可见机械损伤。 No visible mechanical damage.	1、测试基板：玻璃环氧树脂基板 2、加压速度：（1±0.5）mm/s 3、弯度：2mm 4、保持时间：（20±1）s。 1、 Test Substrate: Glass epoxy substrate 2、 Loading Rate: (1 ± 0.5) mm/s 3、 Bending Deflection: 2 mm 4、 Holding Time: (20 ± 1) s 

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
6	振动 Vibration	无可见机械损伤， 阻抗变化率小于±30%。 No mechanical damage. Impedance change: within ±30%	振幅:1.5mm 测试时间:沿三个垂直方向各做 2 小时 频率范围:10Hz～55Hz～10Hz （1 分钟） Amplitude modulation: 1.5mm Test time: A period of 2h in each of 3 mutually perpendicular directions. Frequency range: 10Hz to 55Hz to 10Hz for 1min.
7	耐高温 High temperature resistance	无可见机械损伤， 阻抗变化率小于±30%。 No mechanical damage. Impedance change: within ±30%	测试时间: 1000^{+24}_{-0} h 测试温度:125±2℃ Testing time: 1000^{+24}_{-0} h Temperature: 125±2℃
8	恒定湿热 Static Humidity	无可见机械损伤， 阻抗变化率小于±30%。 No mechanical damage. Impedance change: within ±30%	湿度:90%～95% RH，温度:60℃±2℃ 测试时间: 1000^{+24}_{-0} h Humidity: 90% to 95% RH Temperature: 60℃±2℃ Testing time: 1000^{+24}_{-0} h
9	高温负载 High temperature load	无可见机械损伤， 阻抗变化率小于±30%。 No mechanical damage. Impedance change: within ±30%	施加电流：额定电流 测试时间: 1000^{+24}_{-0} h 测试温度:125℃±2℃ impose current: Rated current. Testing time: 1000^{+24}_{-0} h Temperature: 125±2℃
10	温度冲击 Temperature Shock	无可见机械损伤， 阻抗变化率小于±30%。 No mechanical damage. Impedance change: within ±30%	温度：-55℃，30±3 分钟 +125℃，30±3 分钟 循环次数：100 Temperature: -55℃ for 30±3min +125℃ for 30±3min Number of cycles: 100 

注：以上要求测试电性能的项目，应试验后在标准条件下放置 24 小时后测试。
Note: When there are questions concerning, measurement shall be made after 24±2hrs of recovery under the standard condition.

5、产品包装 Packaging Specifications

5.1 包装数量 Packaging quantity

规格 Size	1608	2012	3216	321611	3225	4532
每卷数量 REEL	4K	4K	4K	3K	2.5K	1K
	4000Pcs	4000Pcs	4000Pcs	3000Pcs	2500Pcs	1000Pcs
每盒数量 BOX	10 盘	10 盘	10 盘	10 盘	10 盘	7 盘
	40000Pcs	40000Pcs	40000Pcs	30000Pcs	25000Pcs	7000Pcs
每箱数量 CASE	6 盒	6 盒	6 盒	6 盒	6 盒	6 盒
	240000Pcs	240000Pcs	240000Pcs	180000Pcs	150000Pcs	42000Pcs

6、 推荐焊接条件 Recommended Welding Conditions

1）焊接条件 Welding Conditions

产品适用于回流焊。预热时，产品表面温度与焊料温度的温差最大不允许超出 150℃。焊接冷却时，产品表面温度与焊料温度的温差最大不允许超出 100℃。预热不足可能引起产品表面裂纹，从而导致产品质量下降。

The product is suitable for reflow soldering. During preheating, the maximum temperature difference between the product surface and the solder temperature must not exceed 150° C. After soldering, during cooling, the maximum temperature difference between the product surface and the solder temperature must not exceed 100° C. Insufficient preheating may cause surface cracks on the product, leading to a decline in product quality.

2）手工焊接 Manual Soldering

烙铁温度：350℃（MAX）；

Soldering iron temperature: 350° C (MAX);

功率：30W（MAX）；

Power: 30W (MAX);

烙铁停留时间：＜5s（烙铁不能碰到端电极）。

Soldering iron contact time: < 5s (The iron must not touch the terminal electrodes).

7、清洗 Cleaning

1）清洗条件：Cleaning Conditions:

2）清洗温度：40℃（MAX）；

Cleaning temperature: 40° C (MAX);

3）清洗时间：建议 1min～10min；

Cleaning time: Recommended 1 min ~ 10 min;

4）超声波功率：200W（MAX）。

Ultrasonic power: 200W (MAX).

8、 存储要求 Storage Requirements

1）存储期限 Storage Period

储存周期：12 个月；为确保产品的可焊性，建议在购买后 6 个月内使用。如超出 12 个月使用，应检查焊接性能合格后方可使用。

Storage cycle: 12 months; To ensure solderability, it is recommended to use the product within 6 months after purchase. If used beyond 12 months, soldering performance should be checked for acceptability before use.

2）存储条件 Storage Conditions

a）产品应储存在货架上，避免与地面直接接触。温度：（-10～+40）℃；湿度：（30～70)%;

a) Products should be stored on shelves, avoiding direct contact with the ground. Temperature: (-10 ~ +40)° C; Humidity: (30 ~ 70)%;

b）禁止将产品保管在腐蚀性物质中，如硫磺、氯气或酸，否则将引起端头氧化，导致降低焊接性。

b) It is prohibited to store products in corrosive substances such as sulfur, chlorine, or acids, as this will cause terminal oxidation and reduce solderability。

c）为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。

c) To avoid the influence of moisture, dust, and other substances, products should be stored on shelves。