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Chip Bead



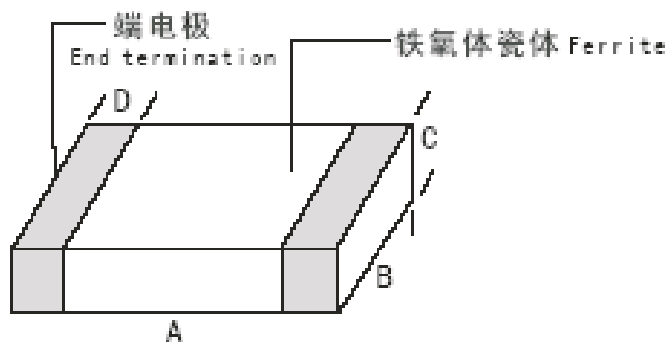
■ FEATURES

- Suit for SMT.
- Shape, dimension and electrical properties accord with EIA standard.
- Superior solderability and resistance to soldering heat.
- Ideal for Wave or reflow soldering.

■ 特征

- 适合表面贴装。
- 形状、尺寸及电性能符合EIA标准。
- 具有良好的可焊性与抗热冲击性。
- 适合波峰焊与再流焊。

■ APPEARANCE AND DIMENSION (外观与尺寸)



Unit: mm

Symbol (代码)	A	B	C	D
0402	1.00 ± 0.15	0.50 ± 0.15	0.50 ± 0.15	0.25 ± 0.10
0603	1.60 ± 0.20	0.80 ± 0.20	0.80 ± 0.20	0.25 ± 0.20
0805	2.00 ± 0.20	1.25 ± 0.20	0.85 ± 0.20	0.50 ± 0.30
1206	3.20 ± 0.20	1.60 ± 0.20	1.00 ± 0.25	0.50 ± 0.30
1210	3.20 ± 0.20	2.50 ± 0.20	1.25 ± 0.20	0.50 ± 0.30
1806	4.50 ± 0.20	1.60 ± 0.20	1.60 ± 0.20	0.50 ± 0.30
1812	4.50 ± 0.20	3.20 ± 0.20	1.50 ± 0.20	0.50 ± 0.30

PART NUMBERING (型号命名方式)

- Product symbol (产品代码)

<u>KBG</u> ①	<u>0603</u> ②	<u>U</u> ③	<u>121</u> ④	<u>A</u> ⑤
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- ① Product code (产品代码)
 KBG: Multilayer Ordinary Chip Beads (叠层片式通用型磁珠)
 KBW: Multilayer Chip Power Beads (大电流磁珠)
 KBY: Sharp Type Beads (尖峰型磁珠)
 KBH: High R Beads (低频高阻型磁珠)

- ② Dimension (尺寸) Unit(单位): mm

Symbol (代码)	A	B	C	D
0402	1.00 ± 0.15	0.50 ± 0.15	0.50 ± 0.15	0.25 ± 0.10
0603	1.60 ± 0.20	0.80 ± 0.20	0.80 ± 0.20	0.25 ± 0.20
0805	2.00 ± 0.20	1.25 ± 0.20	0.85 ± 0.20	0.50 ± 0.30
1206	3.20 ± 0.20	1.60 ± 0.20	1.00 ± 0.25	0.50 ± 0.30
1210	3.20 ± 0.20	2.50 ± 0.20	1.25 ± 0.20	0.50 ± 0.30
1806	4.50 ± 0.20	1.60 ± 0.20	1.60 ± 0.20	0.50 ± 0.30
1812	4.50 ± 0.20	3.20 ± 0.20	1.50 ± 0.20	0.50 ± 0.30

- ③ Material Code (材料代码)

A: A料
 U: U料
 W: W料

- ④ Impedance (阻抗(Ω))

Symbol	050	110	600	121	102
Impedance (Ω)	5	11	60	120	1000

- ⑤ Packaging Style (包装方式)

T = Bulk (散装)
 A = Tape Reel (编带盘装)

ELECTRICAL CHARACTERISTICS (电性能参数)

● KBG (叠层片式通用型磁珠)

0402 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG0402U070	0~7	0.045	300
KBG0402U190	9~19	0.05	300
KBG0402U260	26±25%	0.15	300
KBG0402U310	31±25%	0.2	300
KBG0402U360	36±25%	0.2	300
KBG0402U600	60±25%	0.35	200
KBG0402U101	100±25%	0.4	200
KBG0402U121	120±25%	0.5	150
KBG0402U151	150±25%	0.55	150
KBG0402U201	200±25%	0.6	150
KBG0402U301	300±25%	0.8	100
KBG0402U501	500±25%	1.1	100
KBG0402U601	600±25%	1.3	100
KBG0402U801	800±25%	1.4	50

0603 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG0603U070	5~11	0.05	1000
KBG0603U150	15 ± 25%	0.05	1000
KBG0603U310	31 ± 25%	0.06	500
KBG0603U700	70 ± 25%	0.12	300
KBG0603U800	80 ± 25%	0.15	300
KBG0603U101	100 ± 25%	0.3	200
KBG0603U121	120 ± 25%	0.3	200
KBG0603U151	150 ± 25%	0.35	200
KBG0603U181	180 ± 25%	0.5	200
KBG0603U221	220 ± 25%	0.5	200
KBG0603U301	300 ± 25%	0.5	150
KBG0603U501	500 ± 25%	0.6	150
KBG0603U601	600 ± 25%	0.6	100
KBG0603U801	800 ± 25%	0.7	100
KBG0603U102	1000 ± 25%	0.8	100
KBG0603U122	1200 ± 25%	0.9	100
KBG0603U152	1500 ± 25%	0.9	50
KBG0603U182	1800 ± 25%	1	50
KBG0603U202	2000 ± 25%	1.2	50

0805 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG0805U050	0~9	0.05	600
KBG0805U110	10~19	0.07	600
KBG0805U260	26±25%	0.1	400
KBG0805U310	31±25%	0.1	400
KBG0805U500	50±25%	0.15	400
KBG0805U600	60±25%	0.15	400
KBG0805U800	80±25%	0.2	400
KBG0805U101	100±25%	0.2	400
KBG0805U121	120±25%	0.25	300
KBG0805U151	150±25%	0.25	300
KBG0805U181	180±25%	0.25	300
KBG0805U221	220±25%	0.25	300
KBG0805U301	300±25%	0.35	300
KBG0805U501	500±25%	0.4	200
KBG0805U601	600±25%	0.4	200
KBG0805U801	800±25%	0.45	150
KBG0805U102	1000±25%	0.45	100
KBG0805U122	1200±25%	0.6	100
KBG0805U152	1500±25%	0.7	100
KBG0805U202	2000±25%	0.9	50

1206 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG1206U050	0~9	0.05	1000
KBG1206U110	11~19	0.05	800
KBG1206U260	26±25%	0.1	500
KBG1206U310	31±25%	0.1	500
KBG1206U500	50±25%	0.15	400
KBG1206U800	80±25%	0.15	300
KBG1206U121	120±25%	0.25	300
KBG1206U151	150±25%	0.3	300
KBG1206U181	180±25%	0.3	300
KBG1206U221	220±25%	0.4	300
KBG1206U301	300±25%	0.45	300
KBG1206U501	500±25%	0.5	200
KBG1206U601	600±25%	0.5	200
KBG1206U801	800±25%	0.6	200
KBG1206U102	1000±25%	0.6	200
KBG1206U122	1200±25%	0.7	150

1210 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG1210U190	7~20	0.1	500
KBG1210U260	26±25%	0.1	500
KBG1210U310	31±25%	0.15	500
KBG1210U600	60±25%	0.2	300
KBG1210U800	80±25%	0.3	300
KBG1210U101	100±25%	0.3	300
KBG1210U121	120±25%	0.3	300
KBG1210U151	150±25%	0.4	300
KBG1210U181	180±25%	0.4	300
KBG1210U221	220±25%	0.45	300
KBG1210U301	300±25%	0.45	300
KBG1210U501	500±25%	0.5	200
KBG1210U601	600±25%	0.5	200
KBG1210U801	800±25%	0.6	200
KBG1210U102	1000±25%	0.6	200

1806 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG1806U190	19 ± 25%	0.1	600
KBG1806U260	26 ± 25%	0.1	600
KBG1806U310	31 ± 25%	0.15	600
KBG1806U600	60 ± 25%	0.2	600
KBG1806U700	70 ± 25%	0.25	600
KBG1806U800	80 ± 25%	0.3	500
KBG1806U900	90 ± 25%	0.35	500
KBG1806U121	120 ± 25%	0.4	500
KBG1806U151	150 ± 25%	0.4	500
KBG1806U221	220 ± 25%	0.45	500
KBG1806U301	300 ± 25%	0.45	500
KBG1806U501	500 ± 25%	0.5	200
KBG1806U601	600 ± 25%	0.5	200
KBG1806U801	800 ± 25%	0.55	200

1812 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBG1812U190	19 ± 25%	0.1	500
KBG1812U380	38 ± 25%	0.15	500
KBG1812U700	70 ± 25%	0.2	400
KBG1812U800	80 ± 25%	0.2	400
KBG1812U101	100 ± 25%	0.2	400
KBG1812U121	120 ± 25%	0.25	400
KBG1812U151	150 ± 25%	0.25	300
KBG1812U221	220 ± 25%	0.3	300
KBG1812U301	300 ± 25%	0.3	300
KBG1812U601	600 ± 25%	0.4	200
KBG1812U801	800 ± 25%	0.45	200
KBG1812U102	1000 ± 25%	0.5	200

● KBW (大电流磁珠)

0402 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBW0402U070	5~11	0.03	1000
KBW0402U190	19±25%	0.05	800
KBW0402U260	26±25%	0.06	750
KBW0402U310	31±25%	0.08	700
KBW0402U600	60±25%	0.15	650
KBW0402U101	100±25%	0.2	650
KBW0402U121	120±25%	0.25	450
KBW0402U151	150±25%	0.25	450
KBW0402U201	200±25%	0.4	350
KBW0402U301	300±25%	0.5	300
KBW0402U501	500±25%	0.65	250
KBW0402U601	600±25%	0.7	200
KBW0402U801	800±25%	0.9	200

0603 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBW0603U110	5~11	0.05	1500
KBW0603U190	19±25%	0.06	1500
KBW0603U260	26±25%	0.08	1200
KBW0603U310	31±25%	0.1	1000
KBW0603U800	80±25%	0.12	1000
KBW0603U101	100±25%	0.15	1000
KBW0603U121	120±25%	0.2	800
KBW0603U151	150±25%	0.2	800
KBW0603U181	180±25%	0.25	800
KBW0603U221	220±25%	0.3	600
KBW0603U301	300±25%	0.3	600
KBW0603U501	500±25%	0.3	600
KBW0603U601	600±25%	0.4	500
KBW0603U801	800±25%	0.45	500
KBW0603U102	1000±25%	0.6	500
KBW0603U122	1200±25%	0.7	500
KBW0603U152	1500±25%	0.8	400
KBW0603U182	1800±25%	0.8	400
KBW0603U202	2000±25%	1	400

0805 Type

Part No.	At 100MHz Impedance (阻抗(Ω))	MAX DC Resistance (直流电阻(Ω))	Max Rated Current (额定电流(mA))
KBW0805U050	0~7	0.03	3000
KBW0805U110	7~19	0.03	3000
KBW0805U260	26±25%	0.03	3000
KBW0805U310	31±25%	0.05	3000
KBW0805U500	50±25%	0.05	3000
KBW0805U600	60±25%	0.05	3000
KBW0805U800	80±25%	0.05	3000
KBW0805U121	120±25%	0.1	3000
KBW0805U151	150±25%	0.1	2000
KBW0805U181	180±25%	0.15	2000
KBW0805U201	200±25%	0.15	2000
KBW0805U301	300±25%	0.2	2000
KBW0805U501	500±25%	0.2	1500
KBW0805U601	600±25%	0.25	1500
KBW0805U801	800±25%	0.3	1000
KBW0805U102	1000±25%	0.4	800
KBW0805U122	1200±25%	0.45	500
KBW0805U202	2000±25%	0.5	300

1206 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBW1206U050	0~6	0.04	4000
KBW1206U090	7~10	0.04	4000
KBW1206U110	11±25%	0.05	4000
KBW1206U190	19±25%	0.05	4000
KBW1206U260	26±25%	0.05	4000
KBW1206U310	31±25%	0.08	3000
KBW1206U600	60±25%	0.1	3000
KBW1206U800	80±25%	0.1	3000
KBW1206U101	100±25%	0.1	3000
KBW1206U151	150±25%	0.15	3000
KBW1206U181	180±25%	0.15	3000
KBW1206U221	200±25%	0.2	3000
KBW1206U301	300±25%	0.2	2500
KBW1206U501	500±25%	0.2	2000
KBW1206U601	600±25%	0.25	2000
KBW1206U801	800±25%	0.25	2000
KBW1206U102	1000±25%	0.3	2000
KBW1206U122	1200±25%	0.35	1000

1210 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBW1210U190	19±25%	0.05	4500
KBW1210U260	26±25%	0.05	4000
KBW1210U310	31±25%	0.05	4000
KBW1210U600	60±25%	0.06	4000
KBW1210U800	80±25%	0.08	3000
KBW1210U121	120±25%	0.1	3000
KBW1210U151	150±25%	0.1	3000
KBW1210U181	180±25%	0.1	3000
KBW1210U221	220±25%	0.15	3000
KBW1210U301	300±25%	0.15	3000
KBW1210U501	500±25%	0.15	2000
KBW1210U601	600±25%	0.2	2000
KBW1210U801	800±25%	0.25	1000
KBW1210U102	1000±25%	0.3	1000

1806 Type

Part No.	At 100MHz Impedance (阻抗(Ω))	MAX DC Resistance (直流电阻(Ω))	Max Rated Current (额定电流(mA))
KBW1806U260	26 ± 25%	0.05	3000
KBW1806U310	31 ± 25%	0.05	3000
KBW1806U750	75 ± 25%	0.06	3000
KBW1806U900	90 ± 25%	0.08	3000
KBW1806U121	120 ± 25%	0.1	3000
KBW1806U151	150 ± 25%	0.1	2000
KBW1806U221	220 ± 25%	0.15	2000
KBW1806U301	300 ± 25%	0.2	2000
KBW1806U501	500 ± 25%	0.25	1000
KBW1806U601	600 ± 25%	0.3	1000
KBW1806U851	850 ± 25%	0.3	1000

1812 Type

Part No.	At 100MHz Impedance (阻抗(Ω))	MAX DC Resistance (直流电阻(Ω))	Max Rated Current (额定电流(mA))
KBW1812U190	19 ± 25%	0.05	5000
KBW1812U260	26 ± 25%	0.05	5000
KBW1812U380	38 ± 25%	0.06	4000
KBW1812U700	70 ± 25%	0.06	4000
KBW1812U800	80 ± 25%	0.08	4000
KBW1812U101	100 ± 25%	0.08	4000
KBW1812U121	120 ± 25%	0.08	3000
KBW1812U151	150 ± 25%	0.1	3000
KBW1812U221	220 ± 25%	0.12	2000
KBW1812U301	300 ± 25%	0.15	2000
KBW1812U501	500 ± 25%	0.2	1000
KBW1812U601	600 ± 25%	0.25	1000
KBW1812U801	800 ± 25%	0.3	1000
KBW1812U102	1000 ± 25%	0.35	800

● KBY (尖峰型磁珠)

0402 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBY0402A070	0~15	0.045	500
KBY0402A190	19±25%	0.05	300
KBY0402A310	31±25%	0.2	300
KBY0402A600	60±25%	0.35	200
KBY0402A800	80±25%	0.4	200
KBY0402A121	120±25%	0.5	150
KBY0402A151	150±25%	0.55	150
KBY0402A181	180±25%	0.6	150
KBY0402A221	220±25%	0.7	150
KBY0402A301	300±25%	0.8	100
KBY0402A501	500±25%	1.1	100
KBY0402A601	600±25%	1.3	100
KBY0402A801	800±25%	1.4	50

0603 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBY0603A070	0~9	0.1	500
KBY0603A110	9~20	0.2	500
KBY0603A260	26±25%	0.2	500
KBY0603A310	31±25%	0.25	400
KBY0603A500	50±25%	0.25	300
KBY0603A700	70±25%	0.3	300
KBY0603A800	80±25%	0.3	300
KBY0603A101	100±25%	0.3	300
KBY0603A121	120±25%	0.35	200
KBY0603A151	150±25%	0.35	200
KBY0603A181	180±25%	0.4	200
KBY0603A221	220±25%	0.4	200
KBY0603A301	300±25%	0.5	150
KBY0603A501	500±25%	0.6	150
KBY0603A601	600±25%	0.7	100
KBY0603A801	800±25%	0.8	100
KBY0603A102	1000±25%	0.9	100
KBY0603A122	1200±25%	0.95	100

0805 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBY0805A110	9~20	0.1	600
KBY0805A190	19±25%	0.1	600
KBY0805A260	26±25%	0.15	400
KBY0805A310	31±25%	0.15	400
KBY0805A500	50±25%	0.2	400
KBY0805A600	60±25%	0.2	400
KBY0805A800	80±25%	0.25	400
KBY0805A121	120±25%	0.25	300
KBY0805A151	150±25%	0.25	300
KBY0805A181	180±25%	0.25	300
KBY0805A221	220±25%	0.3	300
KBY0805A301	300±25%	0.3	200
KBY0805A501	500±25%	0.35	200
KBY0805A601	600±25%	0.4	200
KBY0805A801	800±25%	0.45	150
KBY0805A102	1000±25%	0.5	100
KBY0805A122	1200±25%	0.6	100
KBY0805A152	1500±25%	0.7	50
KBY0805A182	1800±25%	0.8	50
KBY0805A202	2000±25%	0.8	50
KBY0805A252	2500±25%	0.9	50
KBY0805A302	3000±25%	0.95	50

1206 Type

Part No.	At 100MHz Impedance (阻抗(Ω))	MAX DC Resistance (直流电阻(Ω))	Max Rated Current (额定电流(mA))
KBY1206A190	19±25%	0.1	500
KBY1206A260	26±25%	0.1	500
KBY1206A310	31±25%	0.1	500
KBY1206A700	70±25%	0.2	400
KBY1206A800	80±25%	0.2	300
KBY1206A101	100±25%	0.25	300
KBY1206A121	120±25%	0.3	300
KBY1206A151	150±25%	0.3	300
KBY1206A221	220±25%	0.3	300
KBY1206A301	300±25%	0.35	300
KBY1206A501	500±25%	0.35	200
KBY1206A601	600±25%	0.35	200
KBY1206A801	800±25%	0.4	200
KBY1206A102	1000±25%	0.5	200
KBY1206A122	1200±25%	0.6	100
KBY1206A202	2000±25%	0.7	100

● KBH (低频高阻型磁珠)

0402 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBH0402W310	31 ± 25%	0.2	300
KBH0402W600	60 ± 25%	0.35	200
KBH0402W800	80 ± 25%	0.4	200
KBH0402W121	120 ± 25%	0.5	150
KBH0402W181	180 ± 25%	0.6	150
KBH0402W301	300 ± 25%	0.8	100
KBH0402W501	500 ± 25%	1.1	100
KBH0402W601	600 ± 25%	1.3	100

0603 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBH0603W800	80 ± 25%	0.2	300
KBH0603W101	100 ± 25%	0.2	200
KBH0603W181	180 ± 25%	0.3	200
KBH0603W221	220 ± 25%	0.4	200
KBH0603W301	300 ± 25%	0.45	150
KBH0603W601	600 ± 25%	0.6	100
KBH0603W801	800 ± 25%	0.7	100
KBH0603W122	1200 ± 25%	0.9	100

0805 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBH0805W800	$80 \pm 25\%$	0.25	400
KBH0805W121	$120 \pm 25\%$	0.25	300
KBH0805W151	$150 \pm 25\%$	0.25	300
KBH0805W221	$220 \pm 25\%$	0.3	300
KBH0805W301	$300 \pm 25\%$	0.35	300
KBH0805W501	$500 \pm 25\%$	0.4	200
KBH0805W601	$600 \pm 25\%$	0.45	200
KBH0805W801	$800 \pm 25\%$	0.5	150
KBH0805W102	$1000 \pm 25\%$	0.6	100

1206 Type

Part No.	At 100MHz Impedance (阻抗 (Ω))	MAX DC Resistance (直流电阻 (Ω))	Max Rated Current (额定电流 (mA))
KBH1206W260	$26 \pm 25\%$	0.1	500
KBH1206W121	$120 \pm 25\%$	0.2	300
KBH1206W301	$300 \pm 25\%$	0.25	300
KBH1206W501	$500 \pm 25\%$	0.3	200
KBH1206W601	$600 \pm 25\%$	0.35	200
KBH1206W801	$800 \pm 25\%$	0.5	200