

# 产品规格书

P/N: SBJ201209T-600Y-N

Size Code(JIS/EIA) : 2012/0805

Impedance (at 100MHz) : 60

Tolerance(± %) : 25

Test Frequency : 100 MHz, 200 mV

RDC( )Max : 0.15

Rated Current(mA)Max : 500

Operating Temperature : - 5 5 ~ 1 2 5 (Including self - temperature rise)

L(mm) : 2.00 ± 0.20

W(mm) : 1.25 ± 0.20

T(mm) : 0.90 ± 0.20

磁珠SBJ系列 1005 ( 0402 ) 1608 ( 0603 ) 2012 ( 0805 ) 3216 ( 1206 ) 3225 ( 1210 )

磁珠PBY系列 1005 ( 0402 ) 1608 ( 0603 ) 2012 ( 0805 ) 3216 ( 1206 ) 3225 ( 1210 )

磁珠SBY系列 1005 ( 0402 ) 1608 ( 0603 ) 2012 ( 0805 ) 3216 ( 1206 ) 3225 ( 1210 )

叠成电感CLH系列 1005 ( 0402 ) 1608 ( 0603 ) 2012 ( 0805 )

绕线电感CS系列 1005 ( 0402 ) 1608 ( 0603 ) 2012 ( 0805 )

电感MPB系列 MPB160808 MPB201205 MPB201210 MPB201610 MPB252010 MPB252012

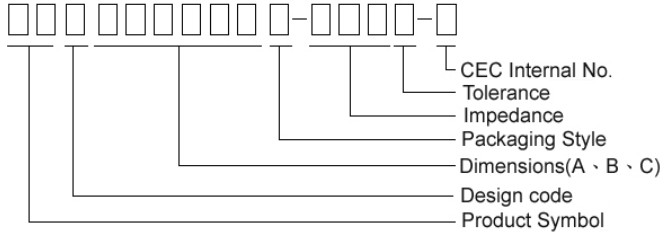
功率电感LVS系列 LVS201610 LVS252010 LVS252012 LVS303010 LVS303012 LVS303015  
LVS404012 LVS404018 LVS404026 LVS505020 LVS505040

## Multilayer Ferrite Chip Beads



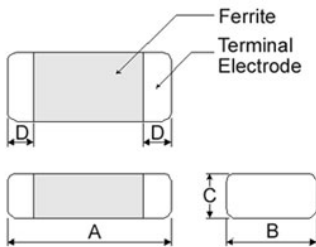
Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and HP series.

### Product Identification



- Product symbol: SB, GB, PB, UPB, NB, HF, HP
- Packaging: T : Tape and Reel ; B : Bulk
- Tolerance: Y =  $\pm 25\%$ ; M =  $\pm 20\%$ ; T:  $\pm 30\%$
- Note: RoHS Compliant

### Shape and Dimensions

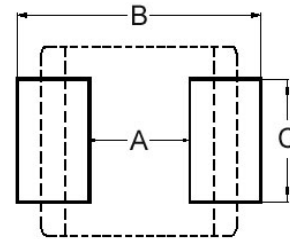


Dimensions in mm

TYPE	A	B	C	D
①060303	0.6 $\pm$ 0.03	0.30 $\pm$ 0.03	0.3 $\pm$ 0.03	0.15 $\pm$ 0.05
②100505	1.0 $\pm$ 0.10	0.50 $\pm$ 0.10	0.5 $\pm$ 0.10	0.25 $\pm$ 0.10
③160808	1.6 $\pm$ 0.15	0.80 $\pm$ 0.15	0.8 $\pm$ 0.15	0.3 $\pm$ 0.2
④201209	2.0 $\pm$ 0.20	1.25 $\pm$ 0.20	0.9 $\pm$ 0.20	0.5 $\pm$ 0.3
⑤201212	2.0 $\pm$ 0.20	1.25 $\pm$ 0.20	1.25 $\pm$ 0.20	0.5 $\pm$ 0.3
④321611	3.2 $\pm$ 0.20	1.60 $\pm$ 0.20	1.1 $\pm$ 0.20	0.5 $\pm$ 0.3
⑥321616	3.2 $\pm$ 0.20	1.60 $\pm$ 0.20	1.6 $\pm$ 0.20	0.5 $\pm$ 0.3
⑦322513	3.2 $\pm$ 0.20	2.50 $\pm$ 0.20	1.3 $\pm$ 0.20	0.5 $\pm$ 0.3
⑧451616	4.5 $\pm$ 0.25	1.60 $\pm$ 0.20	1.6 $\pm$ 0.20	0.5 $\pm$ 0.3
⑧453215	4.5 $\pm$ 0.25	3.20 $\pm$ 0.20	1.5 $\pm$ 0.20	0.5 $\pm$ 0.3

- ① : SB / PB / NB    ② : SB / PB / NB / HF    ⑦ : SB / PB  
 ③ : SB / PB / NB / GB / UPB / HF / HP    ⑤ : UPB    ⑥ : SB  
 ④ : SB / PB / NB / GB / UPB    ⑧ : PB / UPB

### Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑤201212	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
④321611	2.0	4.2 ~ 5.2	1.2
⑥321616	2.0	4.2 ~ 5.2	1.2
⑦322513	2.0	5.5 ~ 6.5	1.8
⑧451616	3.0	5.5 ~ 6.5	1.2
⑧453215	3.0	5.5 ~ 6.5	2.4

- \* Don't apply narrower pattern than listed above to PB and UPB. Narrow pattern might cause excessive heat or open circuit.

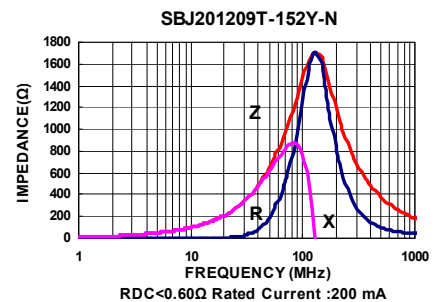
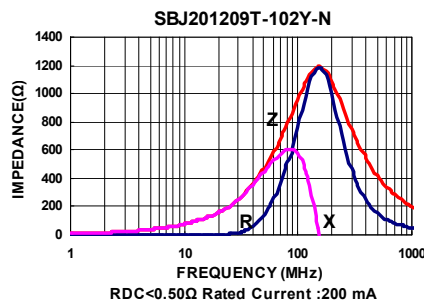
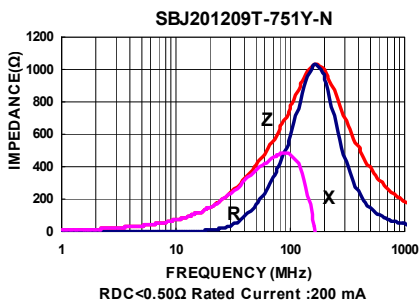
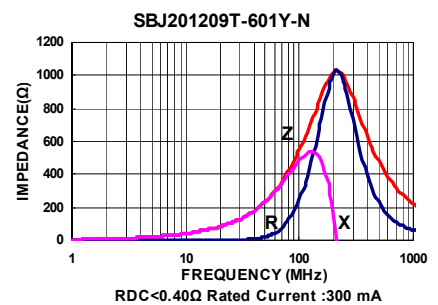
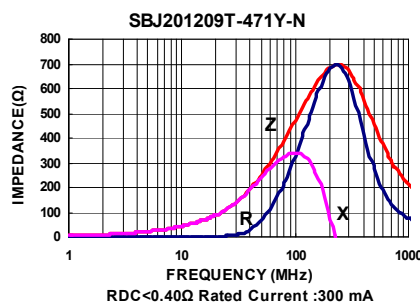
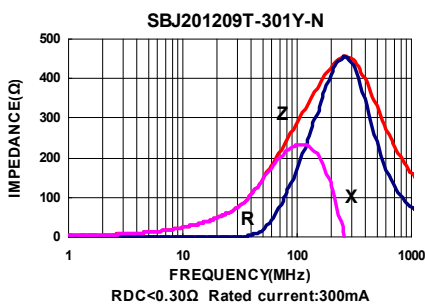
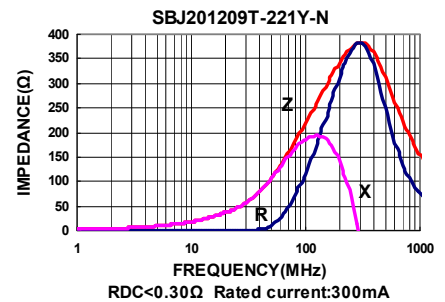
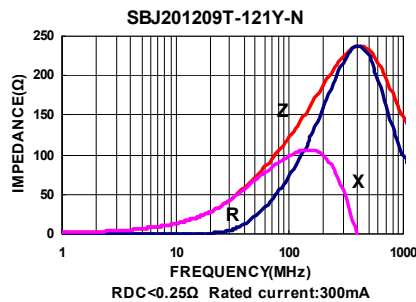
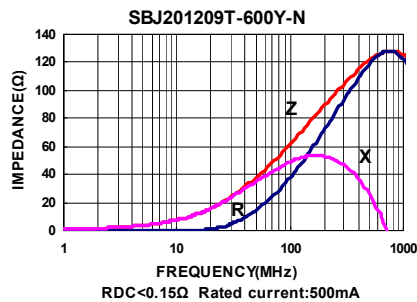
### Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.25	0805
321611	3.2x1.6x1.1	1206
321616	3.2x1.6x1.6	1206
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

## Electrical Characteristics

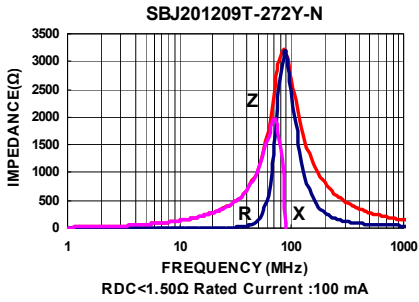
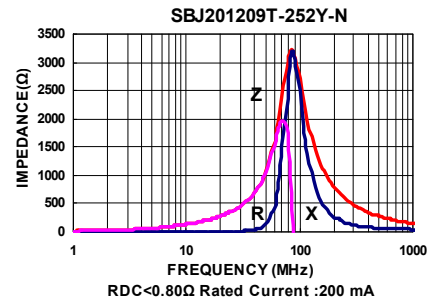
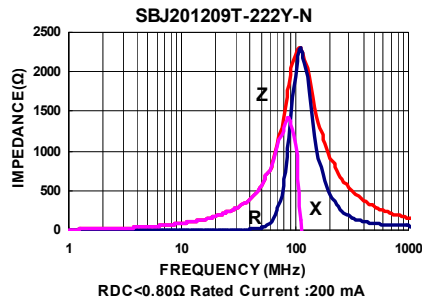
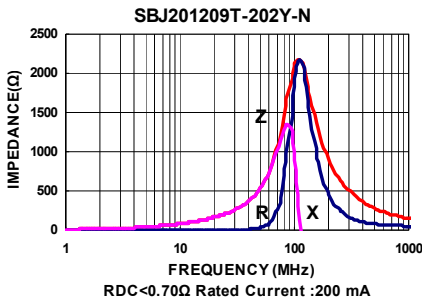
Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
SBJ201209T-110Y-N	100	11 $\pm$ 30%	0.10	600
SBJ201209T-320Y-N	100	32	0.10	600
SBJ201209T-600Y-N	100	60	0.15	500
SBJ201209T-121Y-N	100	120	0.25	300
SBJ201209T-221Y-N	100	220	0.30	300
SBJ201209T-301Y-N	100	300	0.30	300
SBJ201209T-471Y-N	100	470	0.40	300
SBJ201209T-601Y-N	100	600	0.40	300
SBJ201209T-751Y-N	100	750	0.50	200
SBJ201209T-102Y-N	100	1000	0.50	200
SBJ201209T-152Y-N	100	1500	0.60	200
SBJ201209T-202Y-N	100	2000	0.70	200
SBJ201209T-222Y-N	100	2200	0.80	200
SBJ201209T-252Y-N	100	2500	0.80	200
SBJ201209T-272Y-N	100	2700	1.50	100

## Test Instruments : Agilent E4991A Impedance / Material Analyzer



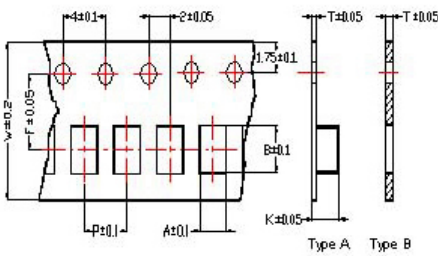
# SMD Multilayer Ferrite Chip Beads - SBJ Series

Test Instruments : Agilent E4991A Impedance / Material Analyzer



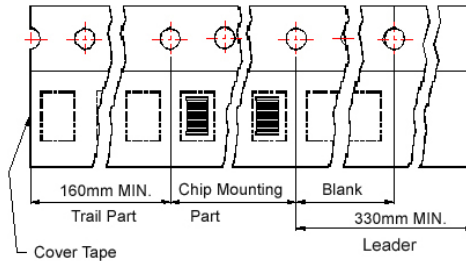
## Packaging Specifications

### Tape Dimensions

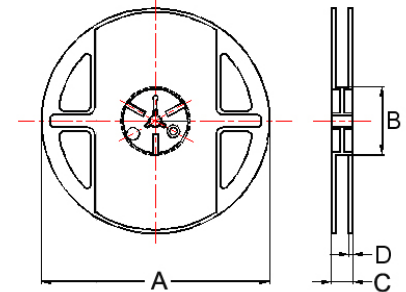


### Tape Material

Carrier Tape: Polycarbonate (Tape A)  
Carrier Tape: Paper (Tape B)  
Cover Tape: Polystyrene



### Reel Dimensions



- ① : SB / PB / NB ② : SB / PB / NB / HF ③ : SB / PB
- ④ : SB / PB / NB / GB / UPB / HF / HP ⑤ : UPB ⑥ :
- SB / PB / NB / GB / UPB ⑦ : SB ⑧ : PB / UPB

## Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	Tape	A	B	C	D	
①060303	0.38	0.67	0.45	8.0	2.0	3.5	-	B	178	60	10	2	15000
②100505	0.65	1.15	0.60	8.0	2.0	3.5	-	B	178	60	12	2	10000
③160808	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	2	4000
④201209	1.50	2.30	0.97	8.0	4.0	3.5	-	B	178	60	12	2	4000
⑤201212	1.35	2.25	0.22	8.0	4.0	3.5	1.35	A	178	60	12	2	3000
④321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000
⑥321616	1.88	3.53	0.22	8.0	4.0	3.5	1.80	A	178	60	12	2	2000
⑦322513	2.77	3.42	0.22	8.0	4.0	3.5	1.55	A	178	60	12	2	2500
⑧451616	1.93	4.95	0.24	12	4.0	5.5	1.93	A	178	60	14	2	2000
⑧453215	3.66	4.95	0.24	12	8.0	5.5	1.85	A	178	60	14	2	1000