



## SMD Multilayer Ferrite Chip Beads-**HSBY/HSBK** Series-**CA**

### FEATURES

- \* Product symbol: HSB, HGB, HPB, HUPB, HNB, HF, HVPB
- \* Packaging: T: Tape and Reel; B: Bulk
- \* Tolerance: Y =  $\pm 25\%$ ; M =  $\pm 20\%$ ; T:  $\pm 30\%$
- \* Note: RoHS Compliant

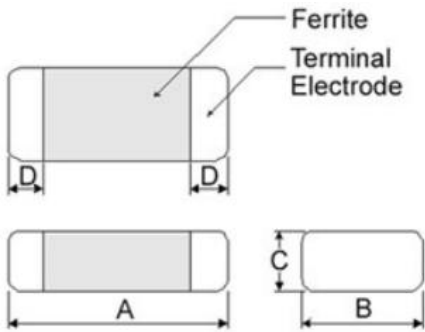


### ORDERING CODE(标志示例)

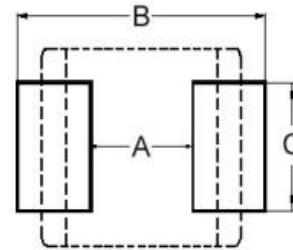
**HSBY**          -               -   **CA**  
(1)                (2)                                        (3)                        (4)                        (5)

- (1) HSBY 向华料号 Part Number
- (2) 尺寸 Dimensions
- (3) 电感量 Inductance
- (4) 电感量公差 Inductance Tolerance
- (5) 尾码 Tail code

### Shape and Dimensions



### Recommended Pattern



### Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3

TYPE	A	B	C
①060303	0.2~0.3	0.75~1.05	0.30
②100505	0.40	1.2~1.4	0.50
③160805	0.7~0.8	1.8~2.0	0.6~0.8
④160808	0.7~0.8	1.8~2.0	0.6~0.8
⑤201209	1.0~1.2	2.6~4.0	1.0~1.2
⑥321611	2.00	4.2~5.2	1.20

### Dimension Conversion

Code	Dimension in mm (A×B×C)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6X0.8X0.5	0603
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805
321611	3.2X1.6X1.1	1206



## SMD Multilayer Ferrite Chip Beads-**HSBY060303 Series-CA**

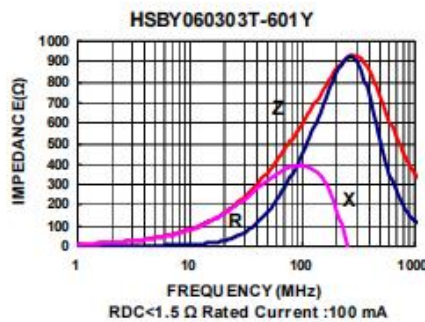
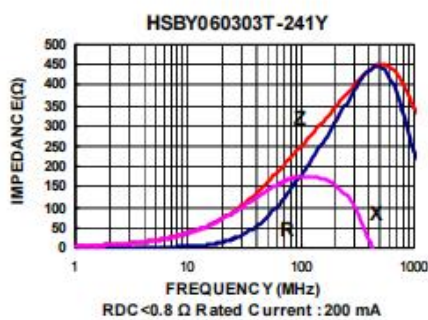
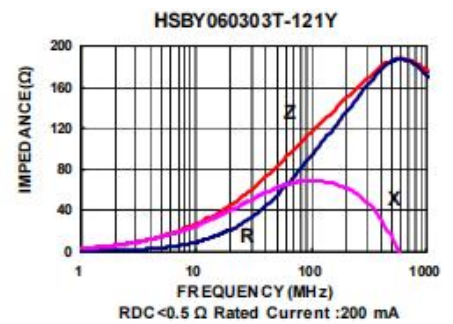
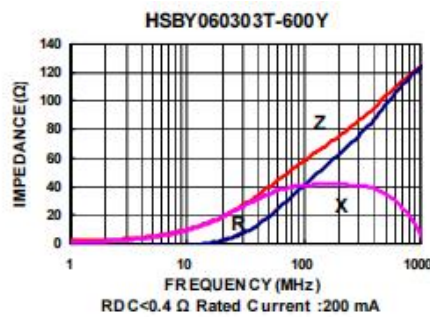
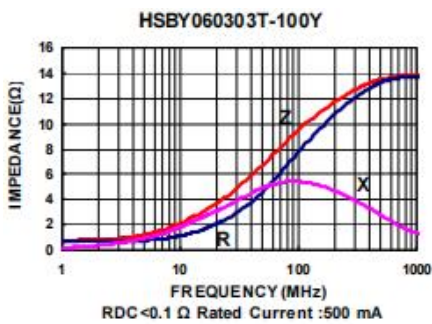
### HSBY060303 series Electrical Characteristics

Part No.	Impedance (Ω)	Tolerance (±%)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HSBY060303T-100Y-CA	10	25	100	0.1	500
HSBY060303T-600Y-CA	60	25	100	0.4	200
HSBY060303T-121Y-CA	120	25	100	0.5	200
HSBY060303T-241Y-CA	240	25	100	0.8	200
HSBY060303T-601Y-CA	600	25	100	1.5	100

**Note:** When ordering, please specify tolerance code. Tolerance : Y=±25%

- Operating temperature range—55°C~125°C(Including self - temperature rise)
- Rate Current: Applied the current to coils, the temperature rise shall not be more than 30°C

**Test Instruments:** Agilent E4991A Impedance / Material Analyzer



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



## SMD Multilayer Ferrite Chip Beads-**HSBY100505 Series-CA**

### HSBY100505 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HSBY100505T-100Y-CA	10	25	100	0.025	1000
HSBY100505T-110Y-CA	11	25	100	0.05	500
HSBY100505T-150Y-CA	15	25	100	0.10	500
HSBY100505T-190Y-CA	19	25	100	0.10	500
HSBY100505T-220Y-CA	22	25	100	0.15	500
HSBY100505T-330Y-CA	30	25	100	0.20	500
HSBY100505T-320Y-CA	32	25	100	0.20	500
HSBY100505T-330Y-CA	33	25	100	0.20	500
HSBY100505T-400Y-CA	40	25	100	0.20	500
HSBY100505T-470Y-CA	47	25	100	0.20	500
HSBY100505T-500Y-CA	50	25	100	0.20	500
HSBY100505T-600Y-CA	60	25	100	0.20	500
HSBY100505T-700Y-CA	70	25	100	0.15	500
HSBY100505T-750Y-CA	75	25	100	0.20	500
HSBY100505T-800Y-CA	80	25	100	0.20	500
HSBY100505T-900Y-CA	90	25	100	0.25	500
HSBY100505T-101Y-CA	100	25	100	0.25	500
HSBY100505T-121Y-CA	120	25	100	0.19	550
HSBY100505T-151Y-CA	150	25	100	0.40	400
HSBY100505T-181Y-CA	180	25	100	0.40	400
HSBY100505T-221Y-CA	220	25	100	0.29	450
HSBY100505T-241Y-CA	240	25	100	0.40	400
HSBY100505T-301Y-CA	300	25	100	0.50	300
HSBY100505T-331Y-CA	330	25	100	0.50	300
HSBY100505T-471Y-CA	470	25	100	0.50	300
HSBY100505T-481Y-CA	480	25	100	0.50	300
HSBY100505T-601Y-CA	600	25	100	0.52	300
HSBY100505T-102Y-CA	1000	25	100	0.65	300
HSBY100505T-182Y-CA	1800	25	100	1.40	100
HSBY100505T-202Y-CA	2200	25	100	1.40	100

**Note: When ordering, please specify tolerance code. Tolerance : Y= $\pm 25\%$**

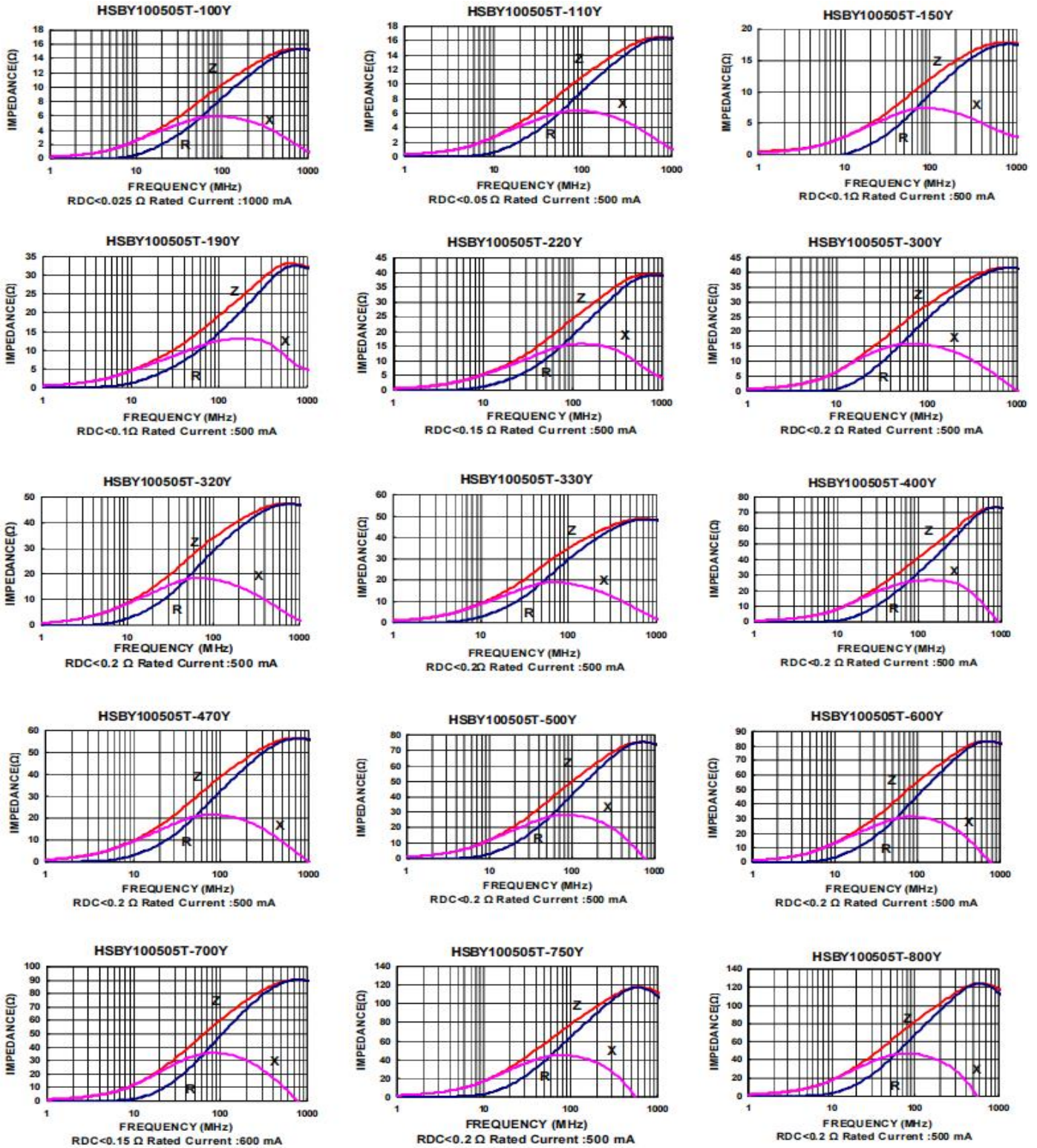
- Operating temperature range—  $55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
- Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



## SMD Multilayer Ferrite Chip Beads-**HSBY100505 Series-CA**

Test Instruments: Agilent E4991A Impedance / Material Analyzer



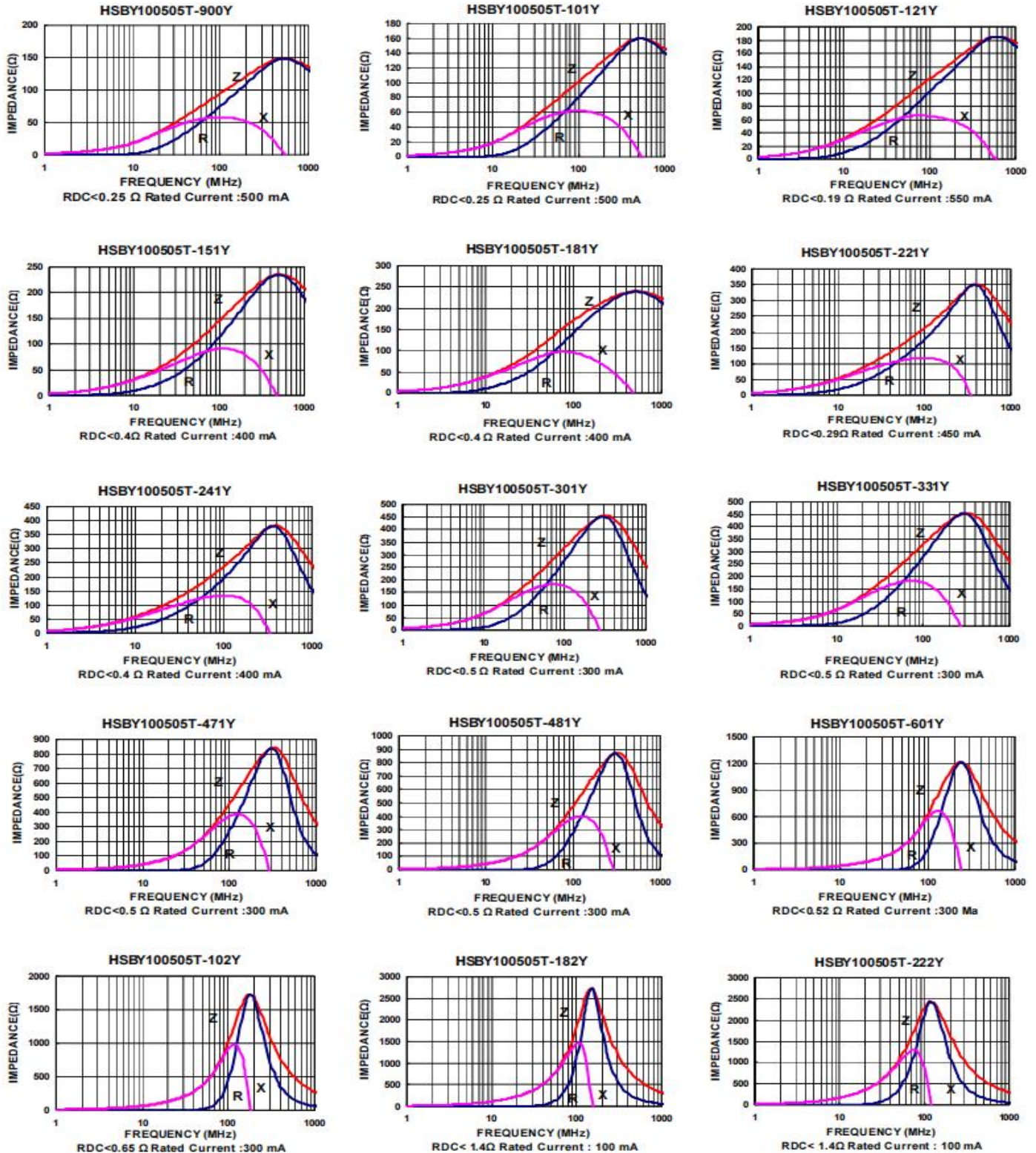
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.





## SMD Multilayer Ferrite Chip Beads- HSBY100505 Series-CA

Test Instruments: Agilent E4991A Impedance / Material Analyzer



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



## SMD Multilayer Ferrite Chip Beads-**HSBK160808 Series-CA**

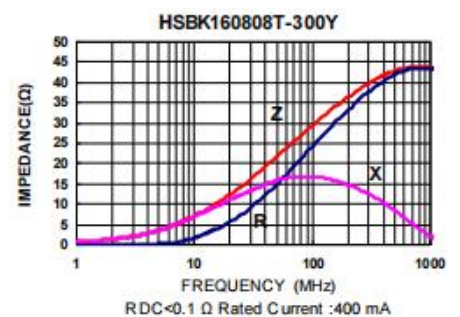
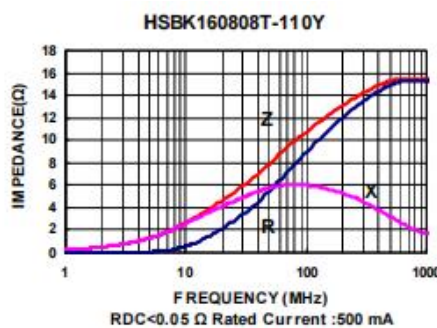
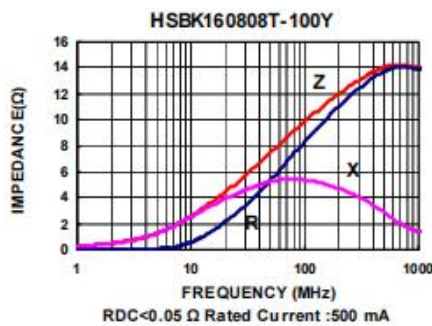
### HSBK160808 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HSBK160808T-100Y-CA	10	25	100	0.05	500
HSBK160808T-110Y-CA	11	25	100	0.05	500
HSBK160808T-300Y-CA	30	25	100	0.10	400
HSBK160808T-310Y-CA	31	25	100	0.10	400
HSBK160808T-600Y-CA	60	25	100	0.10	400
HSBK160808T-800Y-CA	80	25	100	0.15	400
HSBK160808T-121Y-CA	120	25	100	0.25	400
HSBK160808T-221Y-CA	220	25	100	0.30	300
HSBK160808T-301Y-CA	300	25	100	0.40	300
HSBK160808T-471Y-CA	470	25	100	0.50	300
HSBK160808T-601Y-CA	600	25	100	0.50	300
HSBK160808T-102Y-CA	1000	25	100	0.60	300
HSBK160808T-152Y-CA	1500	25	100	0.60	300
HSBK160808T-182Y-CA	1800	25	100	0.80	200
HSBK160808T-202Y-CA	2000	25	100	0.80	200
HSBK160808T-222Y-CA	2200	25	100	0.80	200
HSBK160808T-252Y-CA	2500	25	100	0.80	200
HSBK160808T-272Y-CA	2700	25	100	0.80	200

**Note:** When ordering, please specify tolerance code. Tolerance : Y= $\pm 25\%$

- Operating temperature range— $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
- Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$

**Test Instruments:** Agilent E4991A Impedance / Material Analyzer



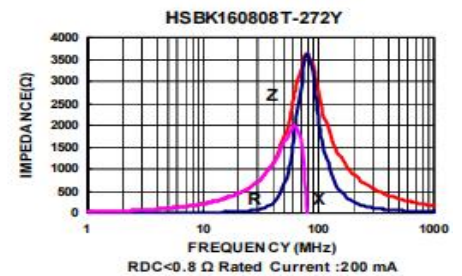
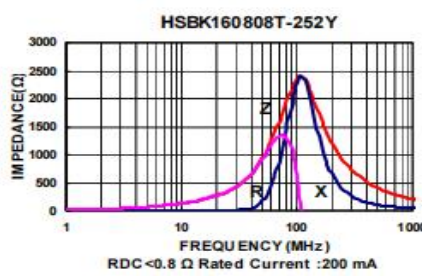
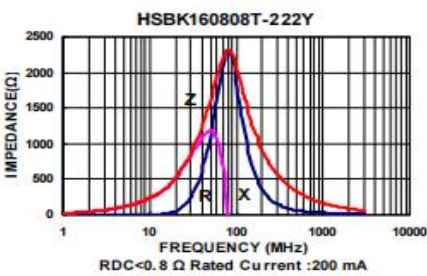
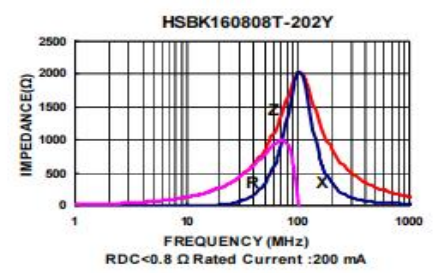
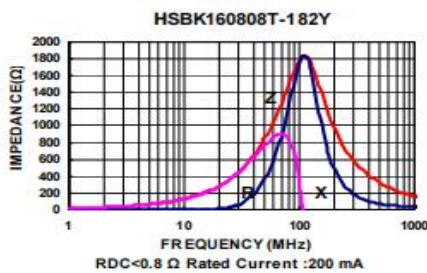
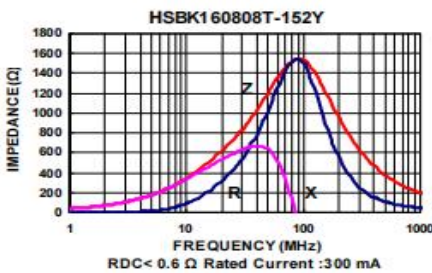
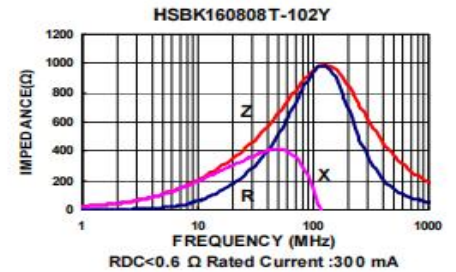
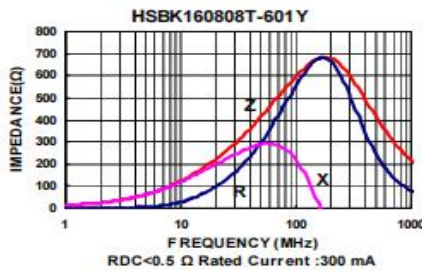
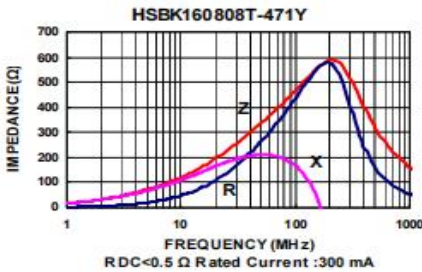
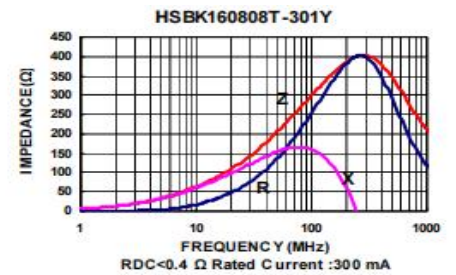
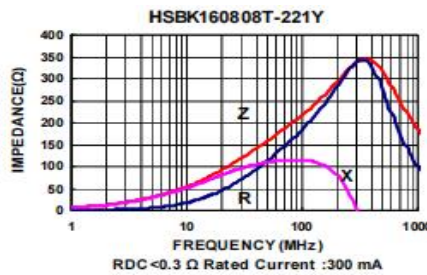
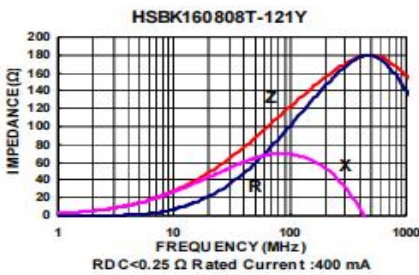
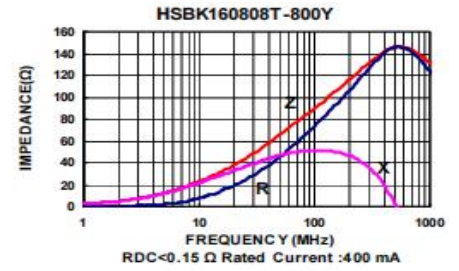
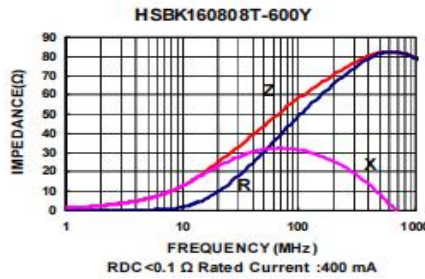
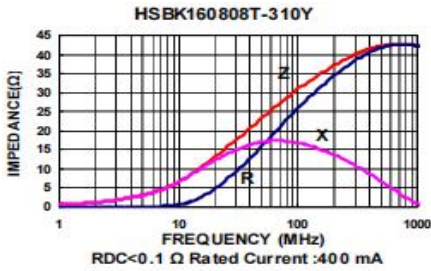
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.





## SMD Multilayer Ferrite Chip Beads- HSBK160808 Series-CA

Test Instruments: Agilent E4991A Impedance / Material Analyzer



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



## SMD Multilayer Ferrite Chip Beads-**HSBK201209 Series-CA**

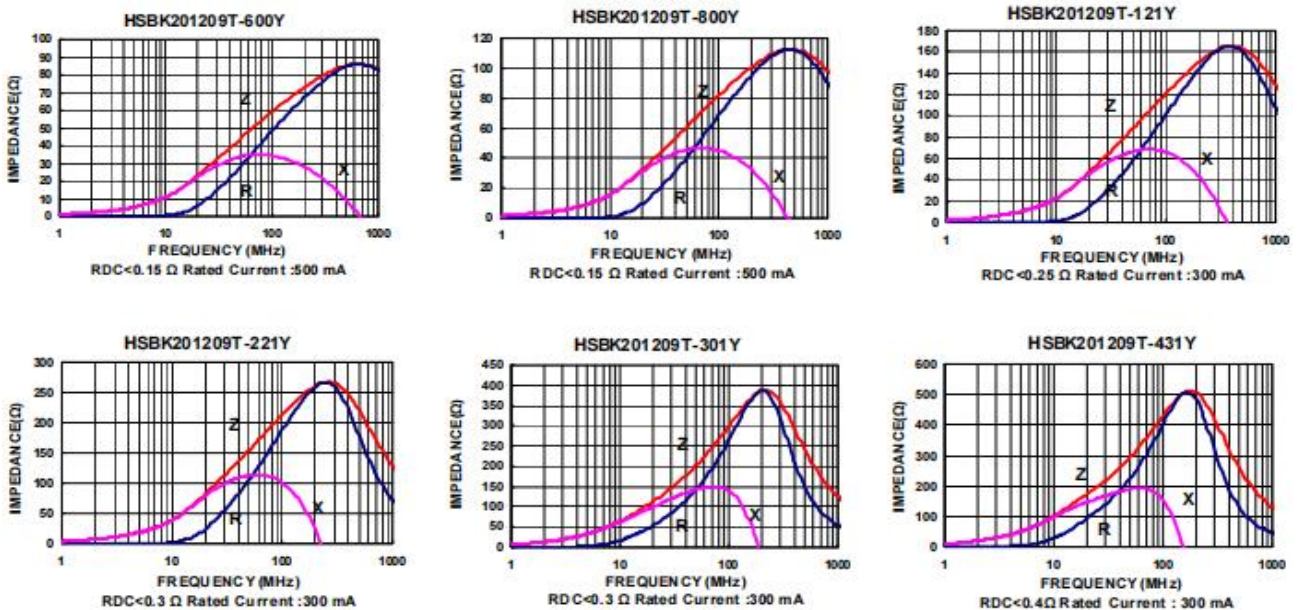
### HSBK201209 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HSBK201209T-600Y-CA	60	25	100	0.15	500
HSBK201209T-800Y-CA	80	25	100	0.15	500
HSBK201209T-121Y-CA	120	25	100	0.25	300
HSBK201209T-221Y-CA	220	25	100	0.30	300
HSBK201209T-301Y-CA	300	25	100	0.30	300
HSBK201209T-431Y-CA	430	25	100	0.40	300
HSBK201209T-471Y-CA	470	25	100	0.40	300
HSBK201209T-601Y-CA	600	25	100	0.40	300
HSBK201209T-102Y-CA	1000	25	100	0.50	200
HSBK201209T-122Y-CA	1200	25	100	0.60	200
HSBK201209T-152Y-CA	1500	25	100	0.60	200
HSBK201209T-202Y-CA	2000	25	100	0.70	200
HSBK201209T-222Y-CA	2200	25	100	0.70	200
HSBK201209T-252Y-CA	2500	25	100	0.70	200
HSBK201209T-272Y-CA	2700	25	100	0.70	200

**Note: When ordering, please specify tolerance code. Tolerance : Y $\pm$ 25%**

- Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
- Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$

### Test Instruments : Agilent E4991A Impedance / Material Analyzer



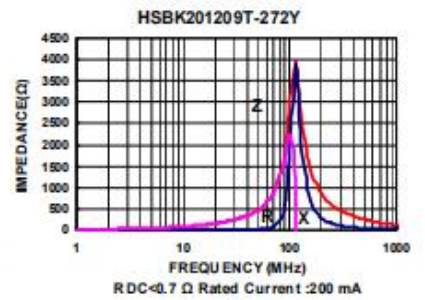
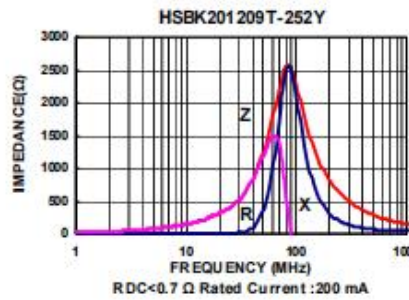
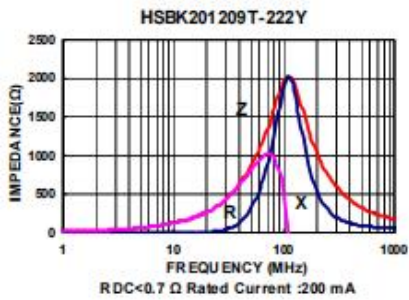
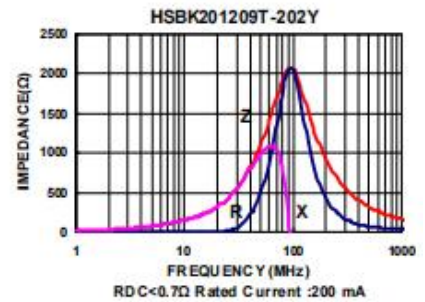
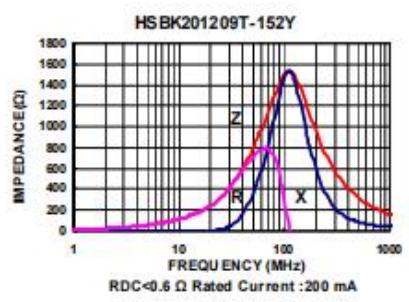
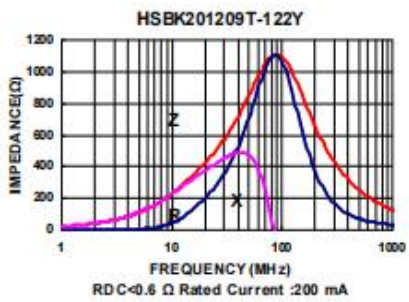
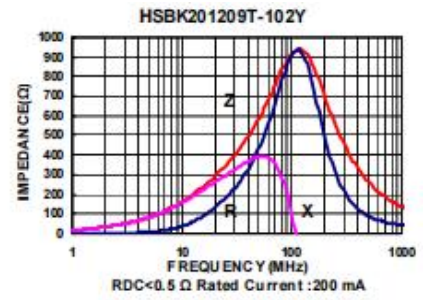
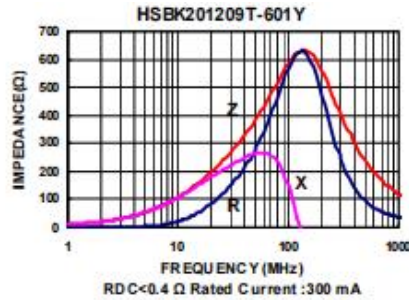
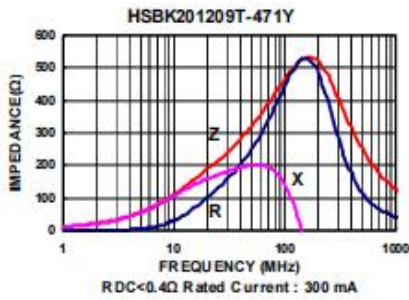
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.





## SMD Multilayer Ferrite Chip Beads-**HSBK201209 Series-CA**

**Test Instruments:** Agilent E4991A Impedance / Material Analyzer



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



## SMD Multilayer Ferrite Chip Beads-**HSBK321611 Series-CA**

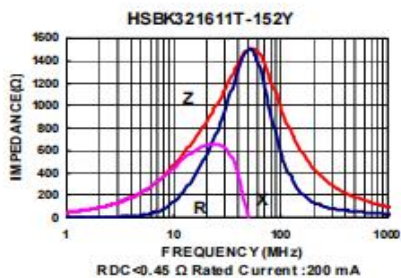
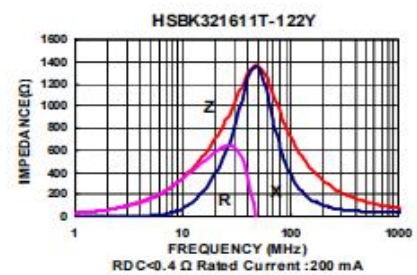
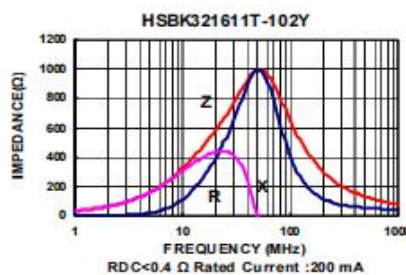
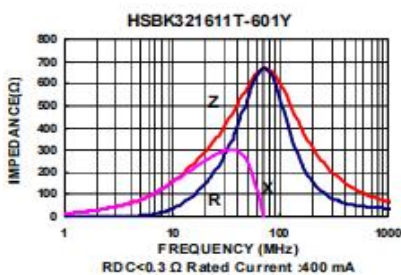
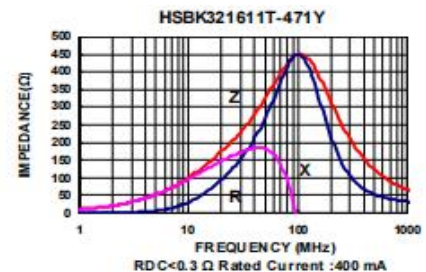
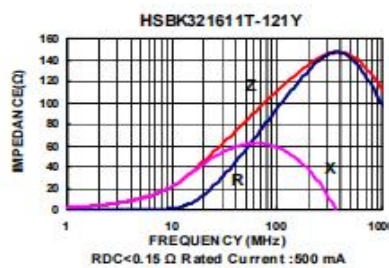
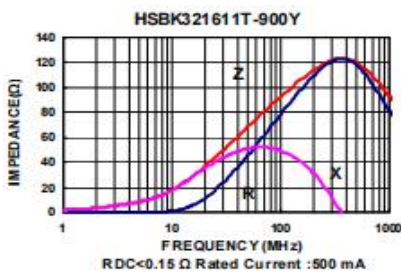
### HSBK321611 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HSBK321611T-900Y-CA	90	25	100	0.15	500
HSBK321611T-121Y-CA	120	25	100	0.15	500
HSBK321611T-471Y-CA	470	25	100	0.20	400
HSBK321611T-601Y-CA	600	25	100	0.30	400
HSBK321611T-102Y-CA	1000	25	100	0.40	200
HSBK321611T-122Y-CA	1200	25	100	0.40	200
HSBK321611T-152Y-CA	1500	25	100	0.45	200

**Note: When ordering, please specify tolerance code. Tolerance : Y= $\pm 25\%$**

- Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
- Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$

**Test Instruments :** Agilent E4991A Impedance / Material Analyzer



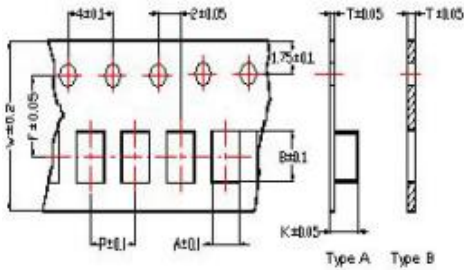
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



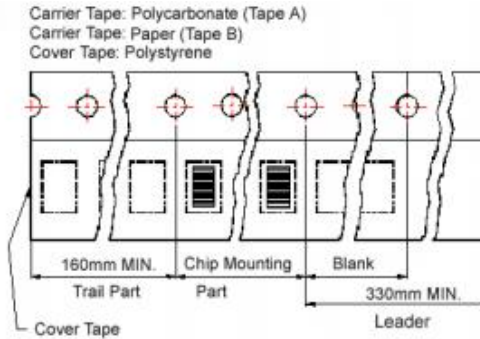
## SMD Multilayer Ferrite Chip Beads-HSBY/HSBK Series-CA

### Packaging Specifications

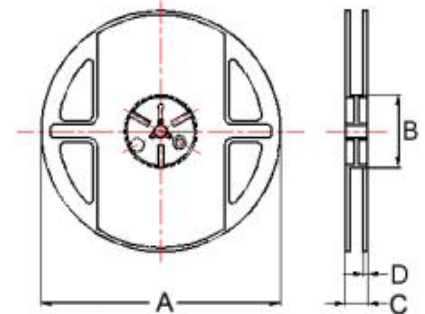
#### Tape Dimensions



#### Tape Material



#### Reel Dimensions



- ① : HSBY / HSBJ / HNB / HPB
- ② : HSBY / HSBJ / HNB / HPB / HUPB / HF
- ③ : HUPB
- ④ : HSBK / HSBJ / HGB / HPB / HNB / HUPB / HVPB
- ⑤ : HSBK / HGB / H PB / HUPB
- ⑥ : HSBY / HSBK / HPB / HUPB

### Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS/REEL
	A	B	T	W	P	F	K	Tape	A	B	C	D	
①060303	0.37	0.67	0.42	8.0	2.0	3.5	--	B	178	60	10	2	15000
②100505	0.62	1.12	0.60	8.0	2.0	3.5	--	B	178	60	12	2	10000
③160805	1.05	1.85	0.60	8.0	2.0	3.5	--	B	178	60	12	2	10000
④160808	1.05	1.85	0.95	8.0	4.0	3.5	--	B	178	60	12	2	4000
⑤201209	1.50	2.30	0.97	8.0	4.0	3.5		B	178	60	12	2	4000
⑥321611	1.88	3.50	0.22	8.0	4.0	3.5	1.27	A	178	60	12	2	3000