



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

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

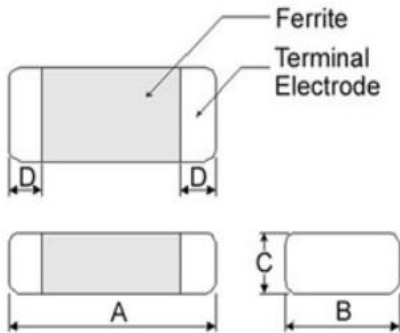


ORDERING CODE(标志示例)

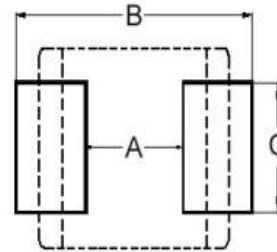
HSBY □□□□ - □□□ □
(1) (2) (3) (4)

- (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

Shape and Dimensions



Recommended Pattern



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
③160805	1.6 \pm 0.15	0.80 \pm 0.15	0.5 \pm 0.15	0.3 \pm 0.2
④160808	1.6 \pm 0.15	0.80 \pm 0.15	0.8 \pm 0.15	0.3 \pm 0.2
⑤201209	2.0 \pm 0.20	1.25 \pm 0.20	0.9 \pm 0.20	0.5 \pm 0.3
⑥321611	3.2 \pm 0.20	1.60 \pm 0.20	1.1 \pm 0.20	0.5 \pm 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**

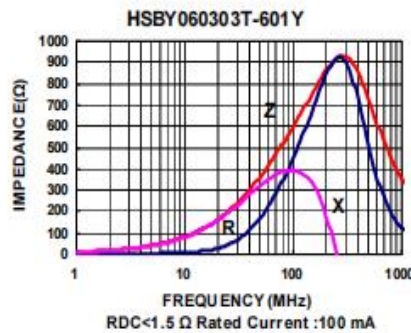
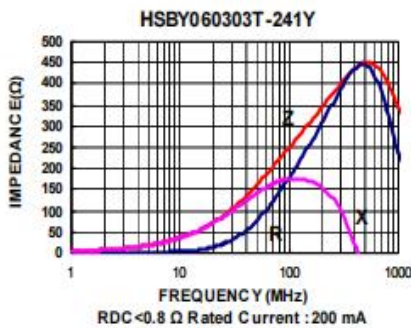
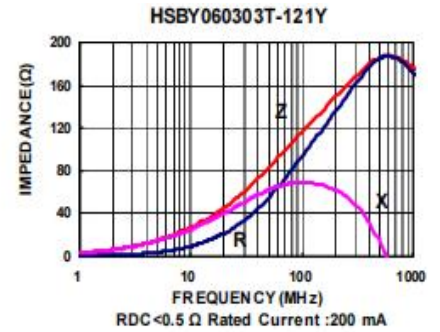
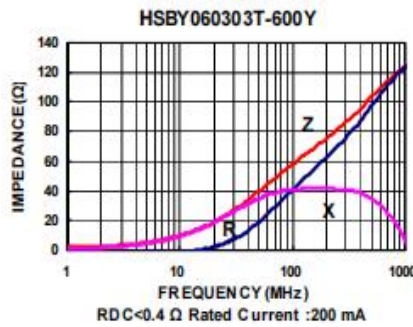
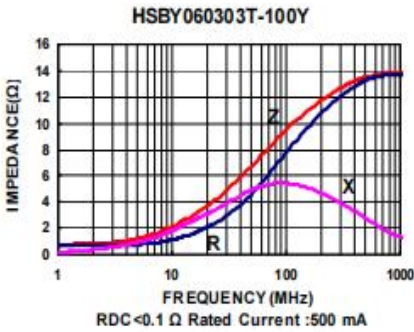
HSBY060303 series Electrical Characteristics

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

Test Instruments: Agilent E4991A Impedance / Material Analyzer



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

HSBY100505 series Electrical Characteristics

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

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

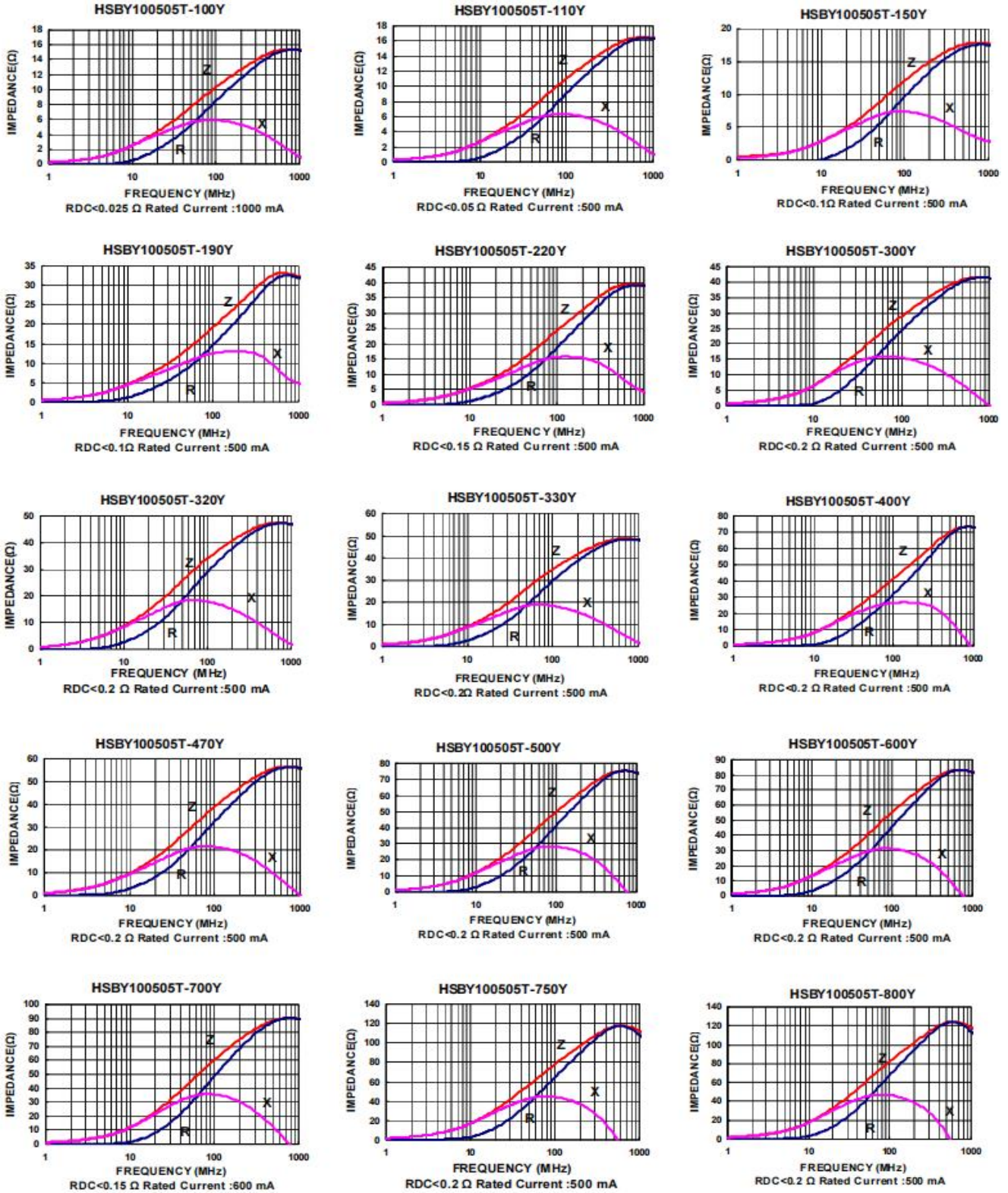
- Operating temperature range — 55°C ~ 125°C (Including self - temperature rise)
- Rate Current: Applied the current to coils, the temperature rise shall not be more than 30°C

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SMD Multilayer Ferrite Chip Beads- HSBY100505 Series

Test Instruments: Agilent E4991A Impedance / Material Analyzer

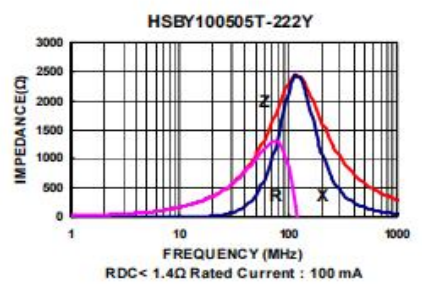
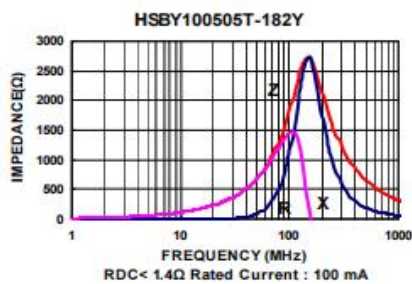
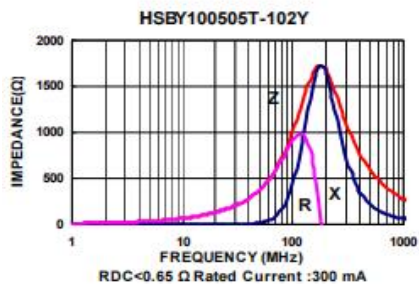
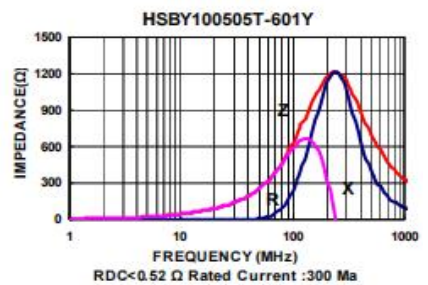
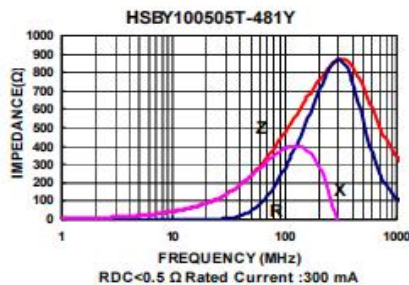
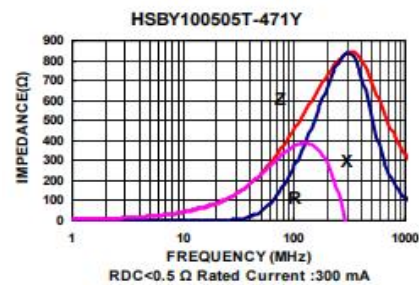
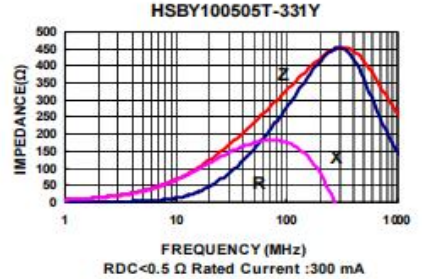
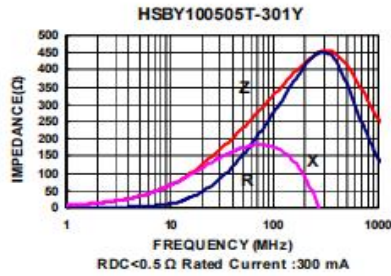
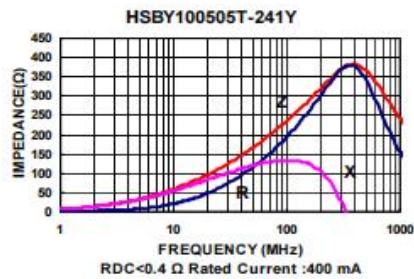
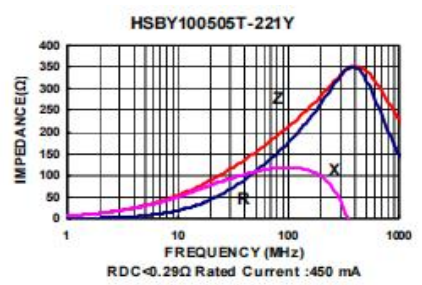
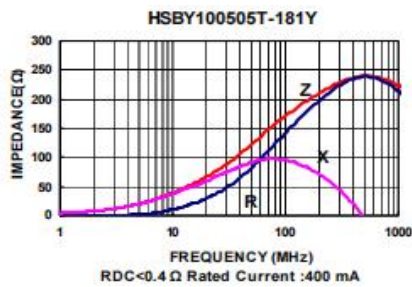
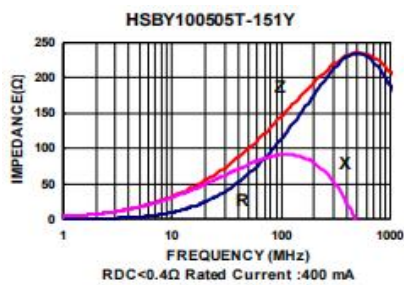
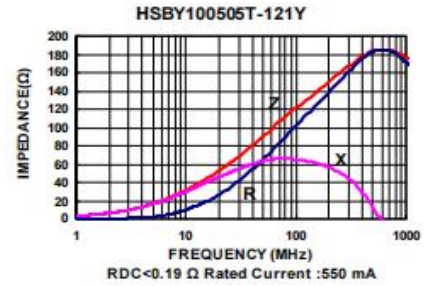
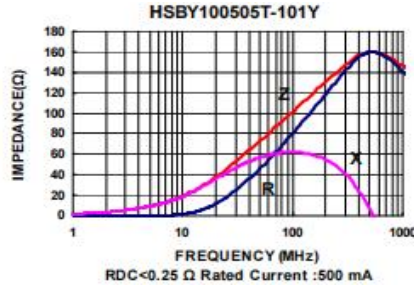
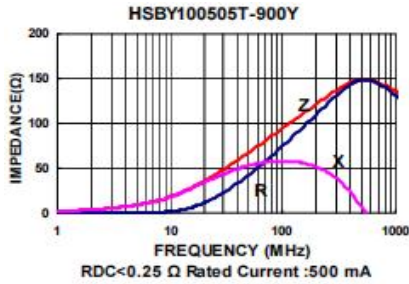


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SMD Multilayer Ferrite Chip Beads-**HSBY100505 Series**

Test Instruments: Agilent E4991A Impedance / Material Analyzer



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

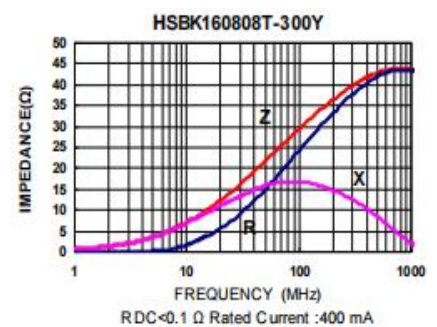
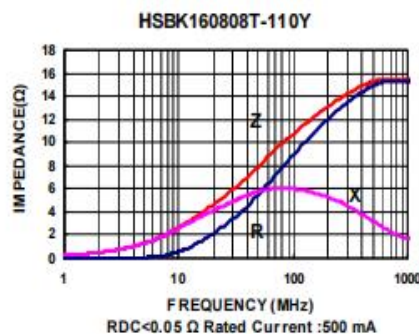
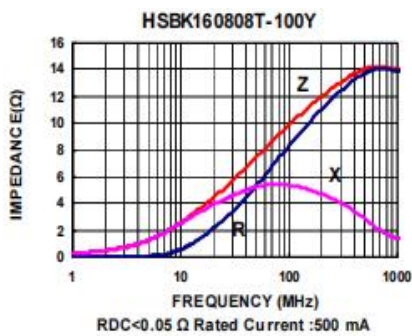
HSBK160808 series Electrical Characteristics

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

Test Instruments: Agilent E4991A Impedance / Material Analyzer

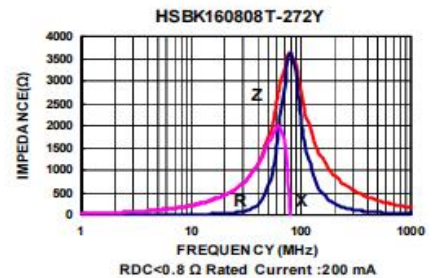
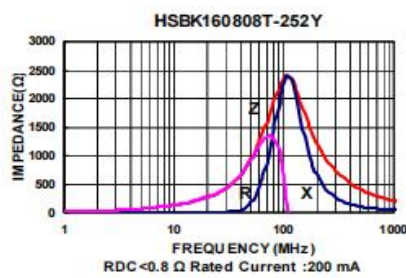
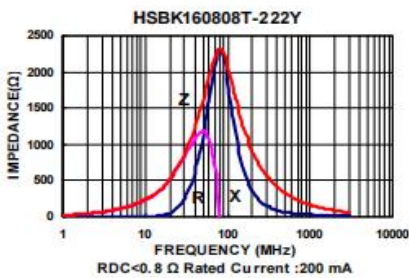
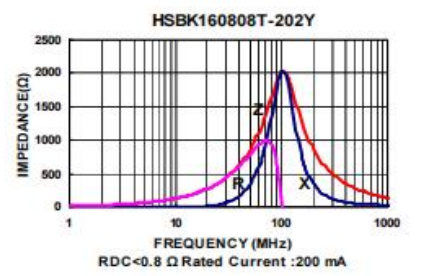
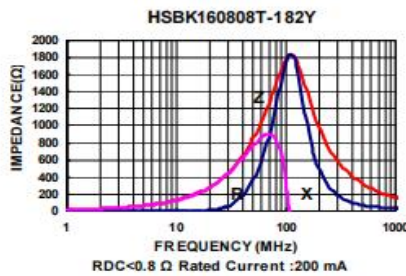
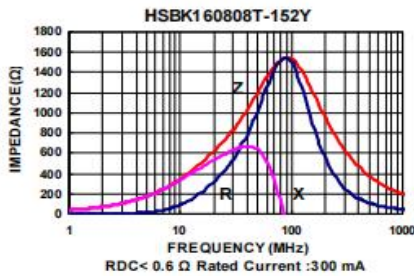
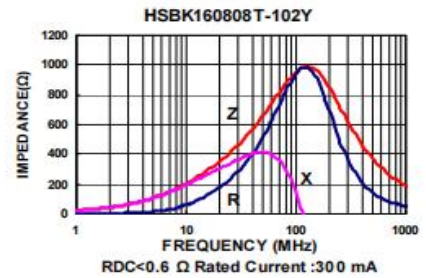
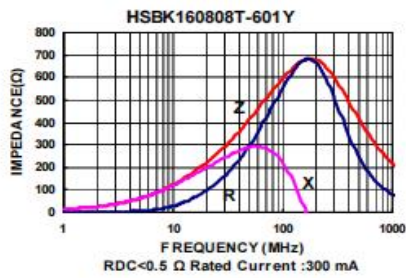
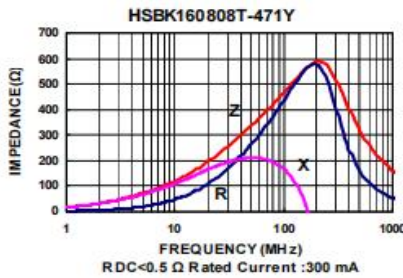
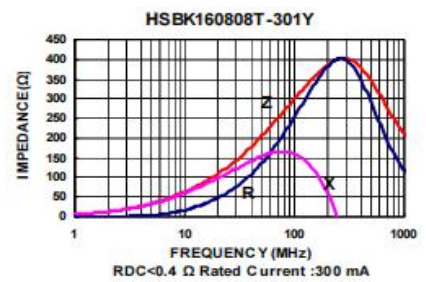
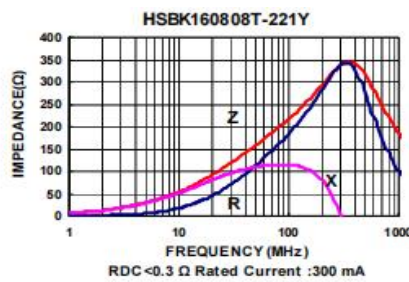
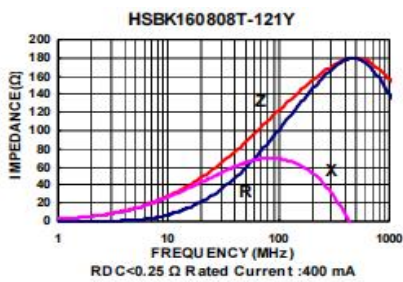
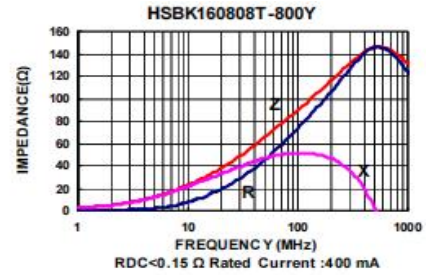
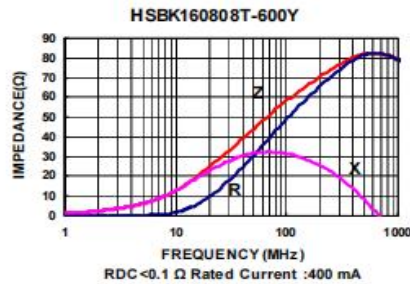
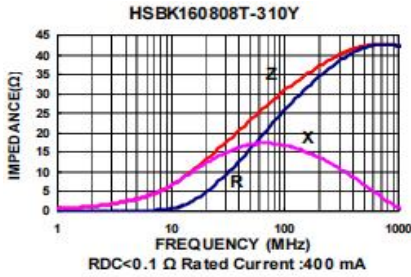


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SMD Multilayer Ferrite Chip Beads- HSBK160808 Series

Test Instruments: Agilent E4991A Impedance / Material Analyzer



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

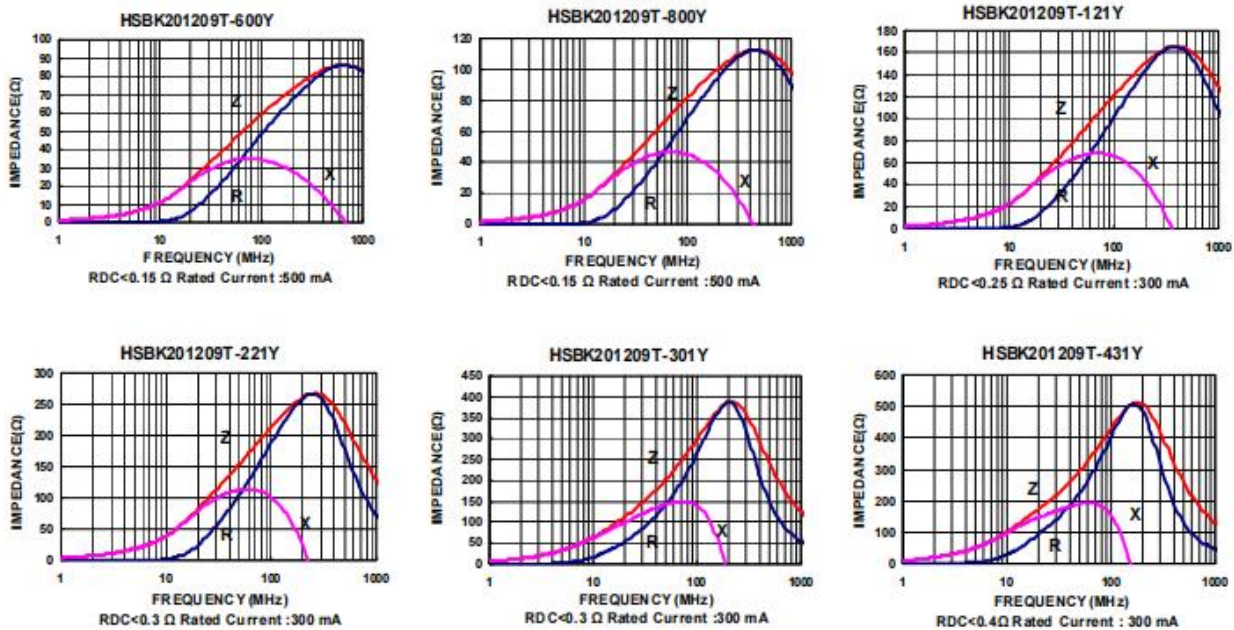
HSBK201209 series Electrical Characteristics

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

Test Instruments: Agilent E4991A Impedance / Material Analyzer

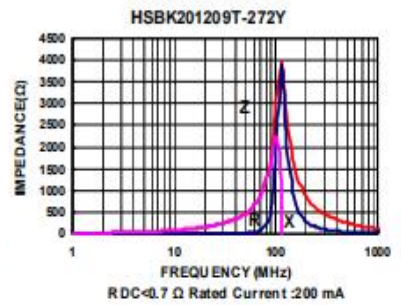
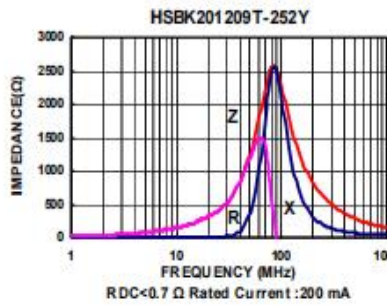
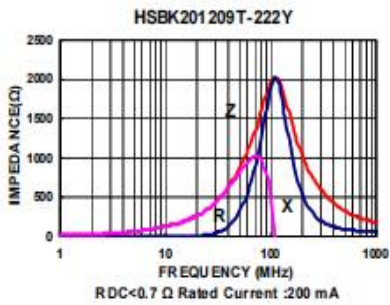
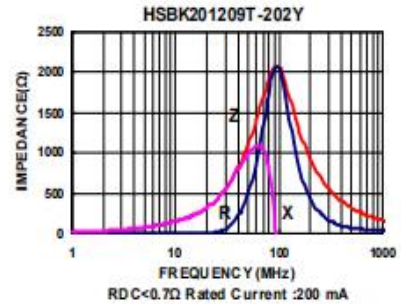
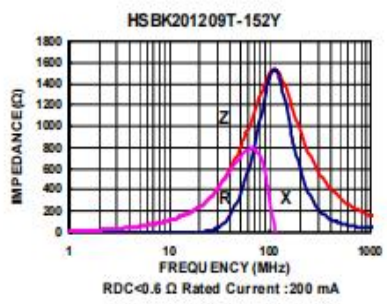
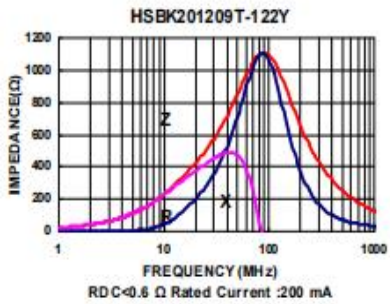
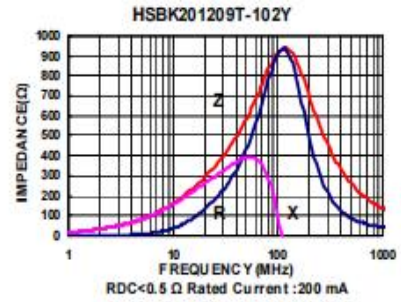
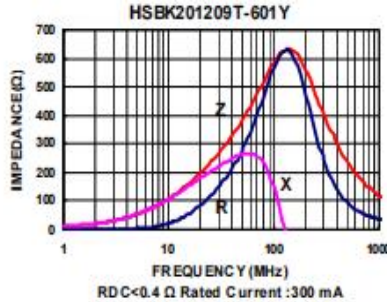
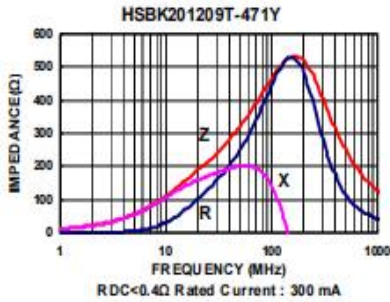


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SMD Multilayer Ferrite Chip Beads-**HSBK201209 Series**

Test Instruments: Agilent E4991A Impedance / Material Analyzer



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

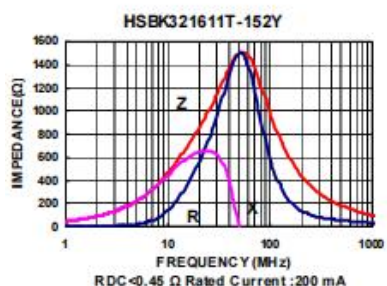
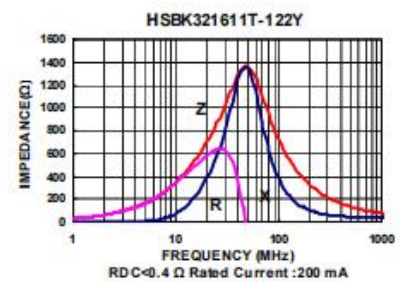
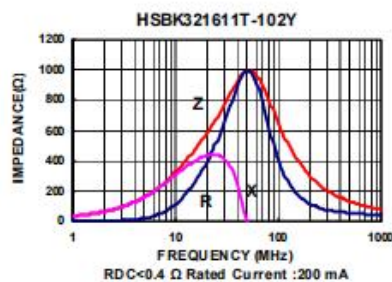
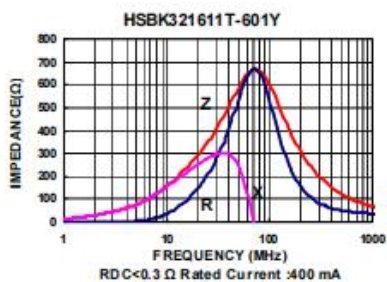
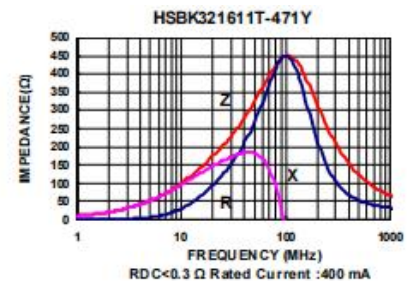
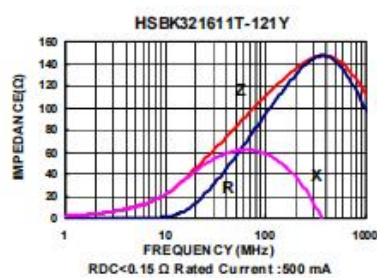
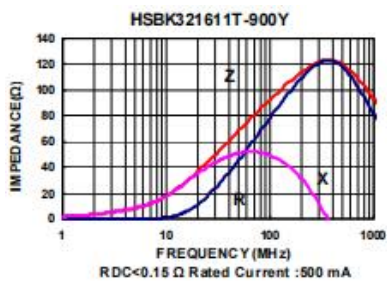
HSBK321611 series Electrical Characteristics

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

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



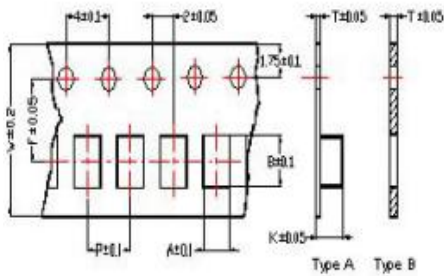
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



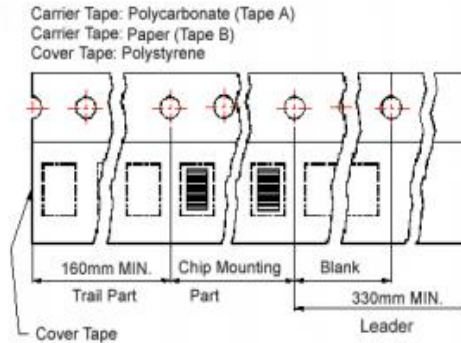
SMD Multilayer Ferrite Chip Beads-HSBY/HSBK Series

Packaging Specifications

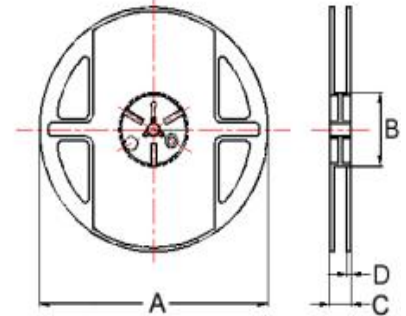
Tape Dimensions



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