



SMD Multilayer Ferrite Chip Beads-HNBQ 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



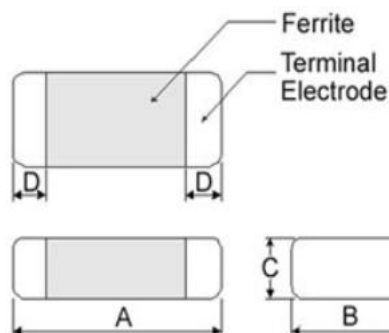
ORDERING CODE(标志示例)

HNBQ □□□□ - □□□ □

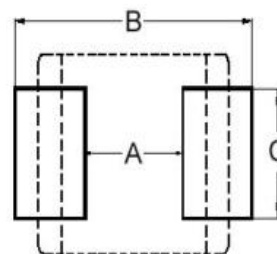
(1) (2) (3) (4)

- (1) HNBQ 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-HNBQ060303 Series

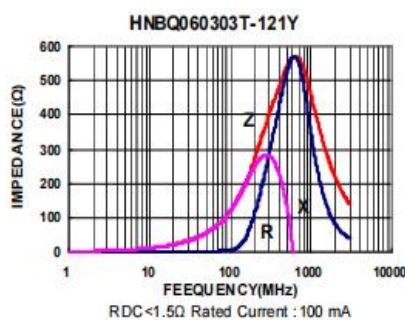
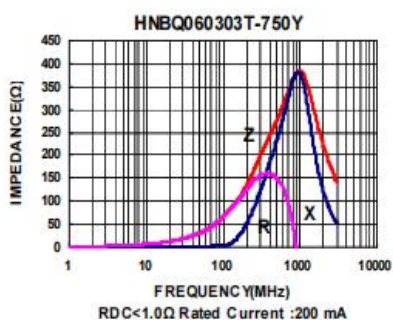
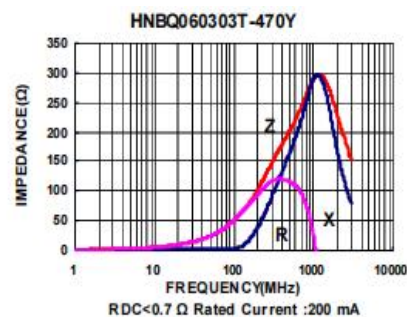
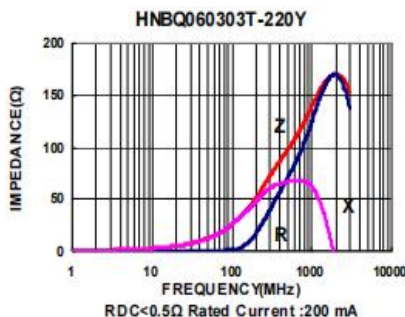
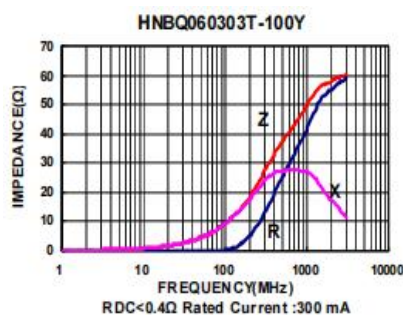
HNBQ060303 series Electrical Characteristics

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HNBQ060303T-100Y	10	25	100	0.4	300
HNBQ060303T-220Y	22	25	100	0.5	200
HNBQ060303T-470Y	47	25	100	0.7	200
HNBQ060303T-750Y	75	25	100	1.0	200
HNBQ060303T-121Y	120	25	100	1.50	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



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-HNBQ100505 Series

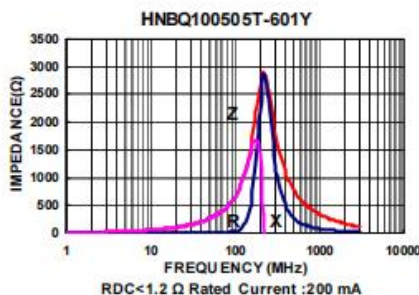
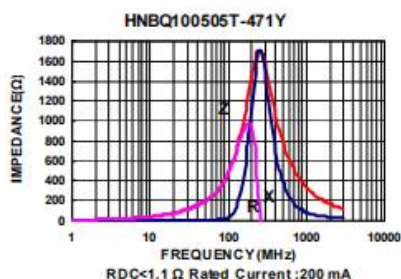
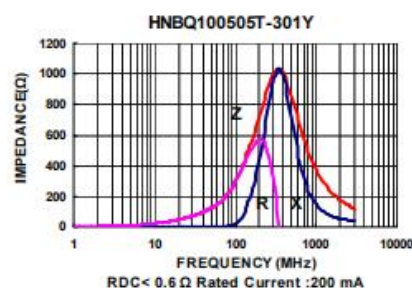
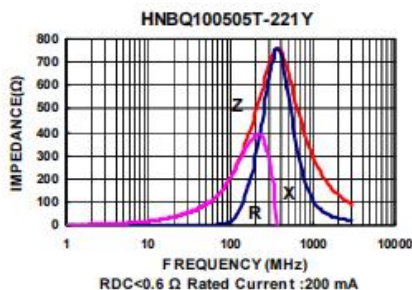
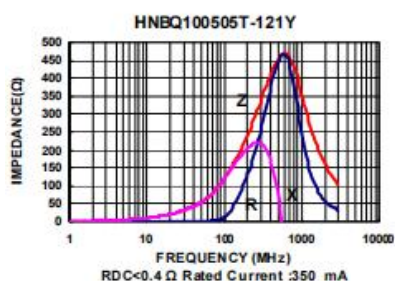
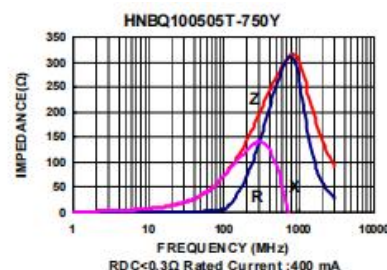
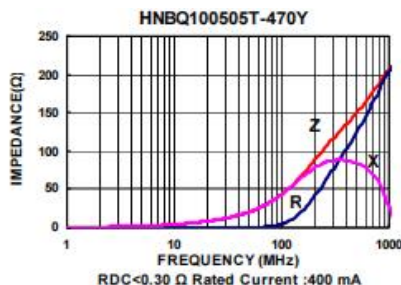
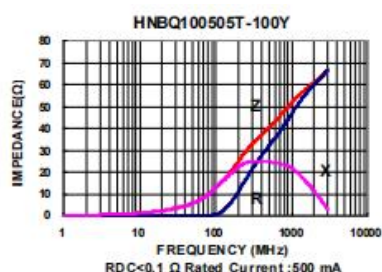
HNBQ100505 series Electrical Characteristics

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HNBQ100505T-100Y	10	25	100	0.10	500
HNBQ100505T-470Y	47	25	100	0.30	400
HNBQ100505T-750Y	75	25	100	0.30	400
HNBQ100505T-121Y	120	25	100	0.40	350
HNBQ100505T-221Y	220	25	100	0.60	200
HNBQ100505T-331Y	330	25	100	0.80	200
HNBQ100505T-471Y	470	25	100	1.10	200
HNBQ100505T-601Y	600	25	100	1.20	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-HNBQ160808 Series

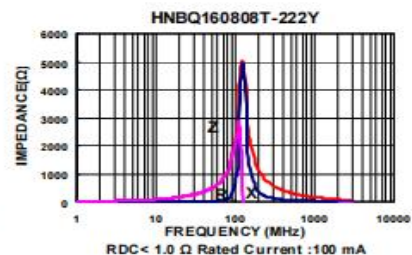
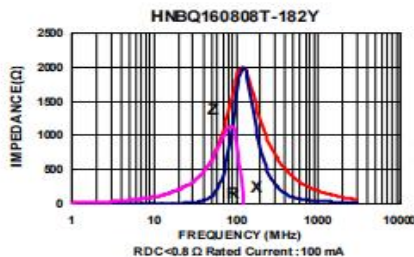
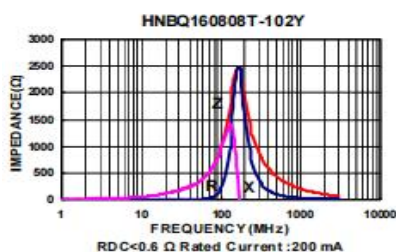
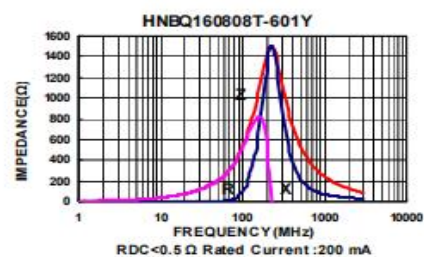
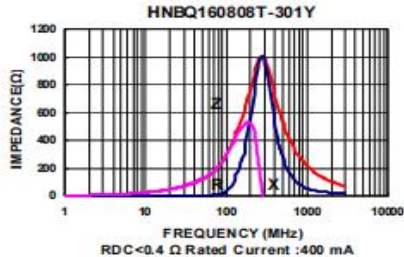
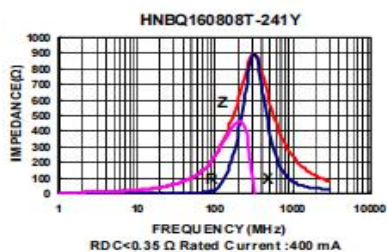
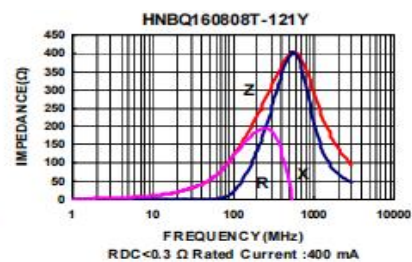
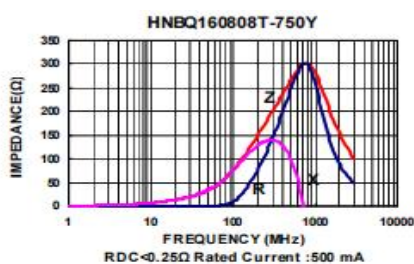
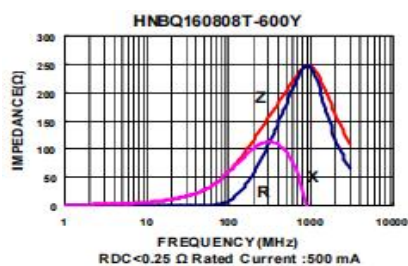
HNBQ160808 series Electrical Characteristics

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HNBQ160808T-600Y	60	25	100	0.25	500
HNBQ160808T-750Y	75	25	100	0.25	500
HNBQ160808T-121Y	120	25	100	0.30	400
HNBQ160808T-241Y	240	25	100	0.35	400
HNBQ160808T-301Y	300	25	100	0.40	400
HNBQ160808T-601Y	600	25	100	0.50	200
HNBQ160808T-102Y	1000	25	100	0.60	200
HNBQ160808T-182Y	1800	25	100	0.80	100
HNBQ160808T-222Y	2200	25	100	1.00	100
HNBQ160808T-252Y	2500	25	100	1.00	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



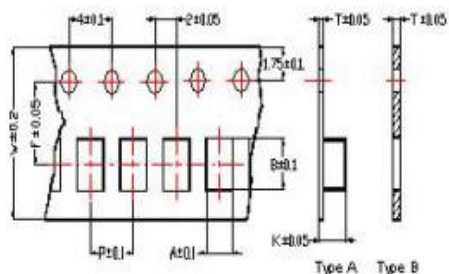
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SMD Multilayer Ferrite Chip Beads-HNBQ Series

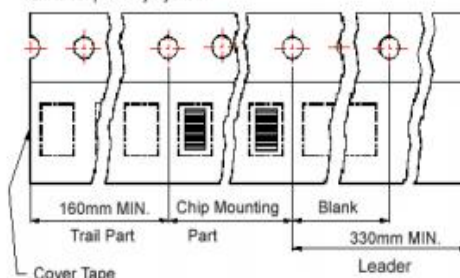
Packaging Specifications

Tape Dimensions

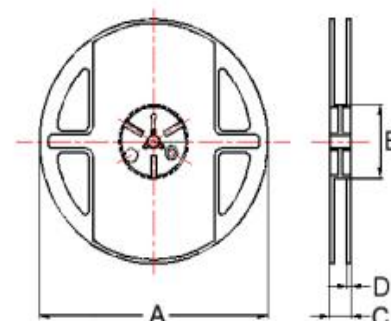


Tape Material

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



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