



SMD Multilayer Ferrite Chip Beads-HPB 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

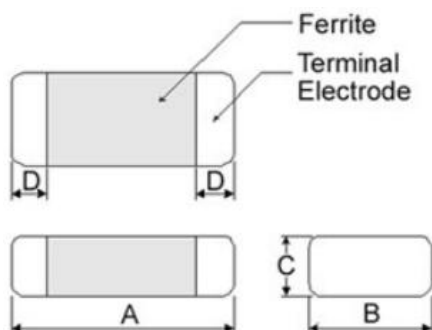


ORDERING CODE(标志示例)

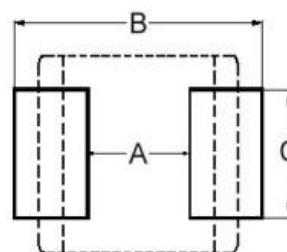
HPB □□□□ - □□□ □ - **CA**
(1) (2) (3) (4) (5)

- (1) HPB 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 $\pm$ 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

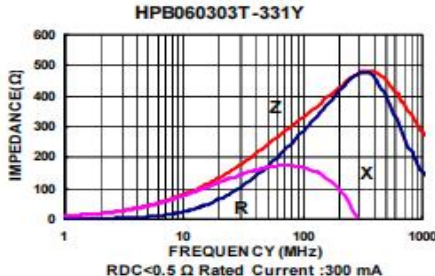
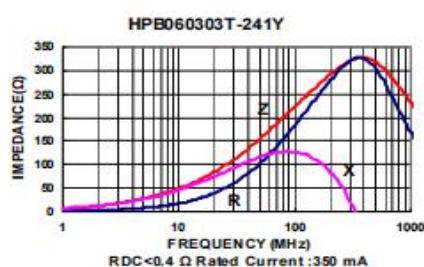
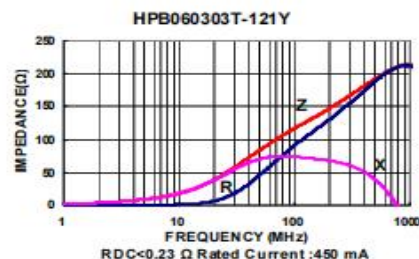
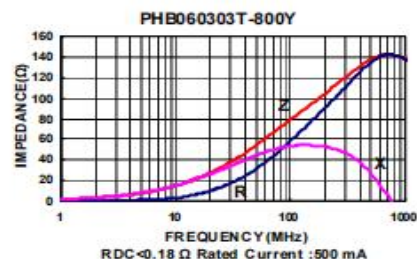
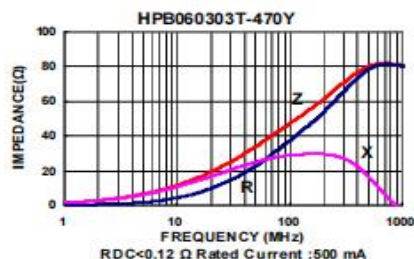
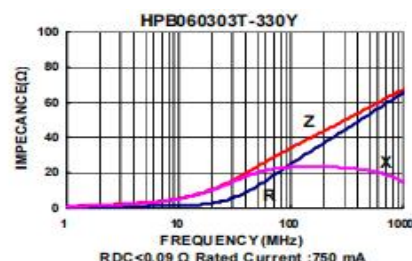
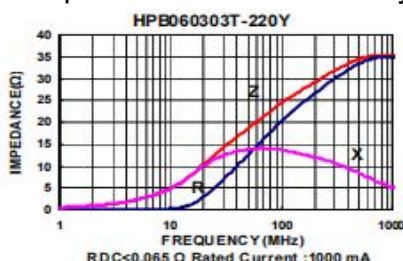
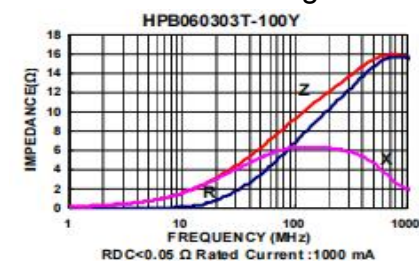
Code	Dimension in mm (A×B×C)	EIA
060303	0.6X0.3X0.3	0201
100505	1.0X0.5X0.5	0402
160805	1.6X0.8X0.5	0603
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805
321611	3.2X1.6X1.1	1206

**SMD Multilayer Ferrite Chip Beads-HPB060303 Series-CA****HPB060303 series Electrical Characteristics**

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HPB060303T-100Y-CA	10	25	100	0.050	1000
HPB060303T-220Y-CA	22	25	100	0.065	1000
HPB060303T-330Y-CA	33	25	100	0.090	750
HPB060303T-470Y-CA	47	25	100	0.120	500
HPB060303T-800Y-CA	80	25	100	0.180	500
HPB060303T-121Y-CA	120	25	100	0.230	450
HPB060303T-241Y-CA	240	25	100	0.400	350
HPB060303T-331Y-CA	330	25	100	0.500	300

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

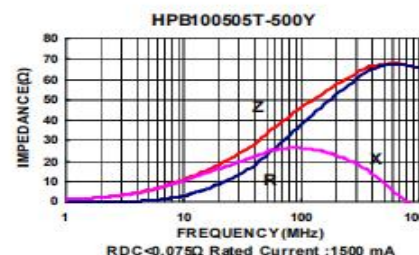
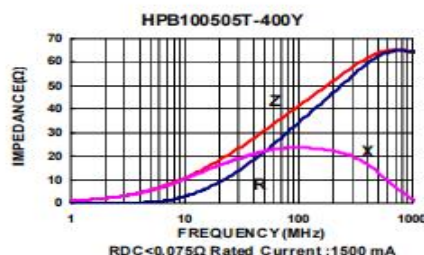
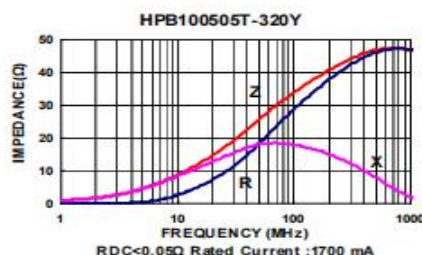
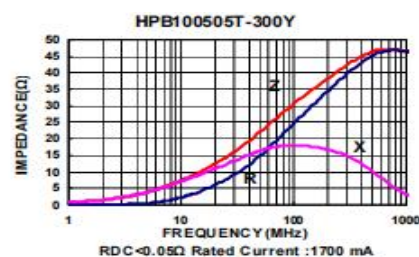
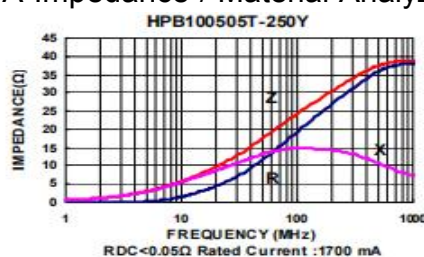
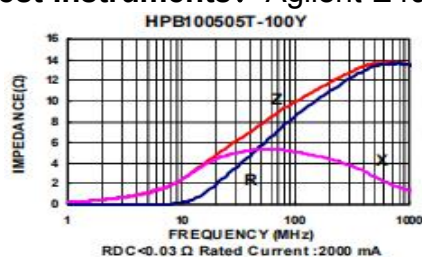
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

**SMD Multilayer Ferrite Chip Beads-HPB100505 Series-CA****HPB100505 series Electrical Characteristics**

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HPB100505T-100Y-CA	10	25	100	0.03	2000
HPB100505T-250Y-CA	25	25	100	0.05	1700
HPB100505T-300Y-CA	30	25	100	0.05	1700
HPB100505T-320Y-CA	32	25	100	0.05	1700
HPB100505T-400Y-CA	40	25	100	0.075	1500
HPB100505T-500Y-CA	50	25	100	0.075	1500
HPB100505T-600Y-CA	60	25	100	0.075	1500
HPB100505T-680Y-CA	68	25	100	0.09	1200
HPB100505T-700Y-CA	70	25	100	0.09	1200
HPB100505T-800Y-CA	80	25	100	0.09	1200
HPB100505T-101Y-CA	100	25	100	0.09	1200
HPB100505T-121Y-CA	120	25	100	0.09	1400
HPB100505T-151Y-CA	150	25	100	0.14	1400
HPB100505T-181Y-CA	180	25	100	0.14	900
HPB100505T-221Y-CA	220	25	100	0.18	1100
HPB100505T-601Y-CA	600	25	100	0.34	700
HPB100505T-102Y-CA	1000	25	100	0.49	500

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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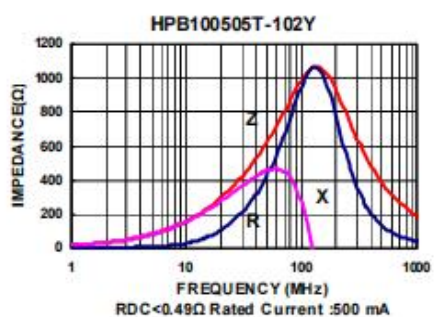
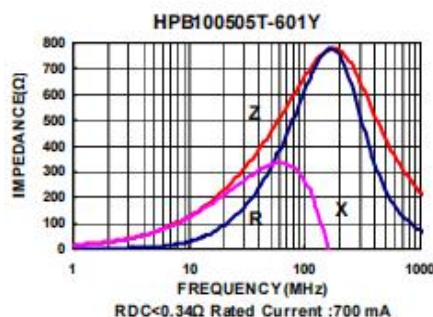
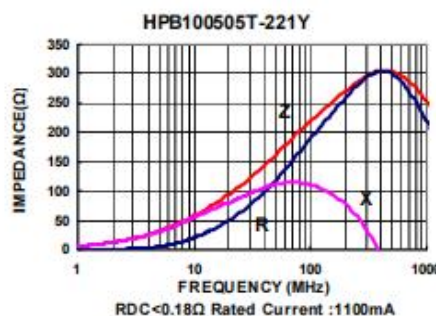
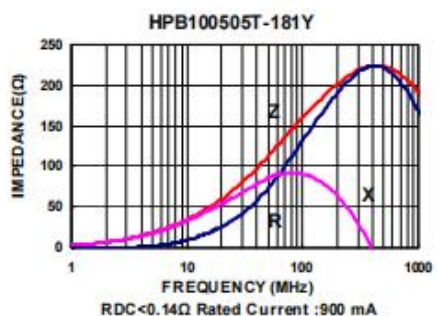
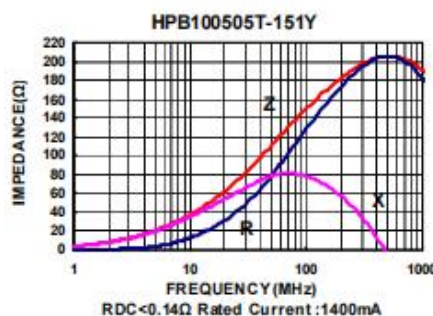
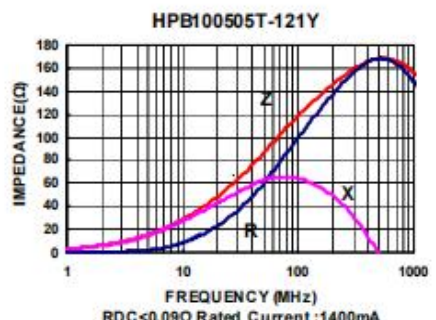
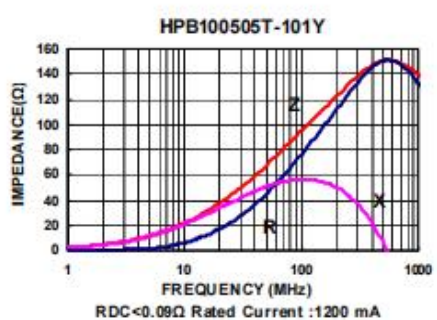
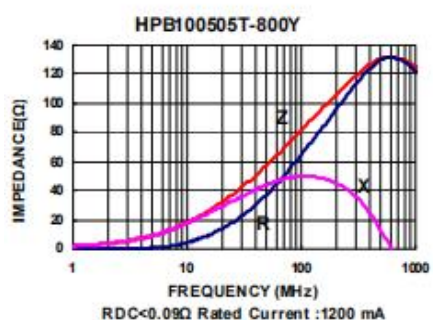
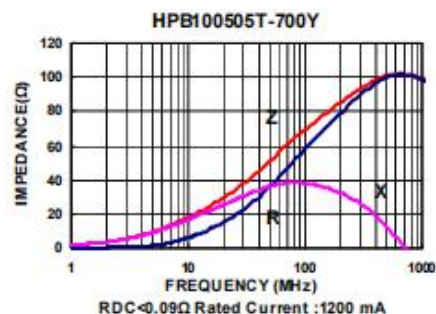
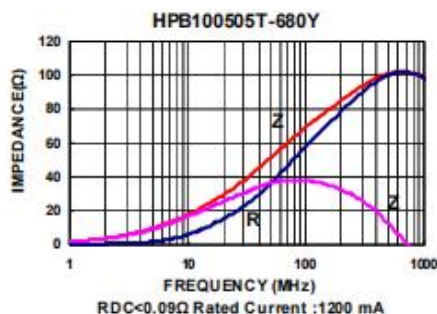
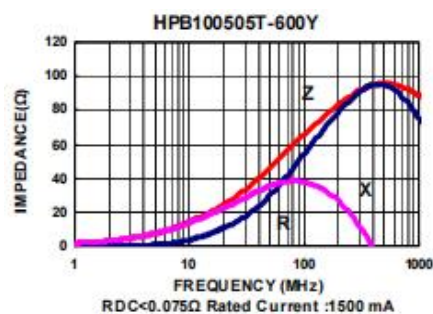


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SMD Multilayer Ferrite Chip Beads-HPB100505 Series-CA

Test Instruments: Agilent E4991A Impedance / Material Analyzer



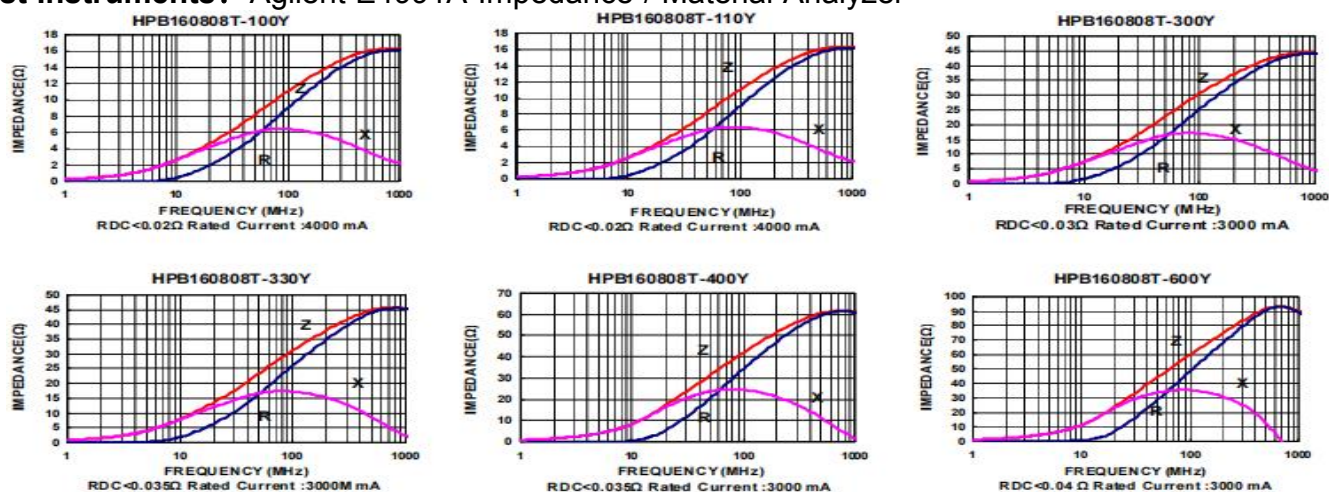
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**SMD Multilayer Ferrite Chip Beads-HPB160808 Series-CA****HPB160808 series Electrical Characteristics**

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HPB160808T-100Y-CA	10	25	100	0.020	4000
HPB160808T-110Y-CA	11	25	100	0.020	4000
HPB160808T-300Y-CA	30	25	100	0.030	3000
HPB160808T-330Y-CA	33	25	100	0.035	3000
HPB160808T-400Y-CA	40	25	100	0.035	3000
HPB160808T-600Y-CA	60	25	100	0.040	3000
HPB160808T-800Y-CA	80	25	100	0.050	2500
HPB160808T-101Y-CA	100	25	100	0.050	2500
HPB160808T-121Y-CA	120	25	100	0.080	2500
HPB160808T-151Y-CA	150	25	100	0.085	2000
HPB160808T-181Y-CA	180	25	100	0.090	2000
HPB160808T-221Y-CA	220	25	100	0.100	2000
HPB160808T-301Y-CA	300	25	100	0.120	1500
HPB160808T-331Y-CA	330	25	100	0.120	1500
HPB160808T-471Y-CA	470	25	100	0.150	1500
HPB160808T-601Y-CA	600	25	100	0.200	1000
HPB160808T-102Y-CA	1000	25	100	0.250	800
HPB160808T-122Y-CA	1200	25	100	0.250	800
HPB160808T-152Y-CA	1500	25	100	0.400	800

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

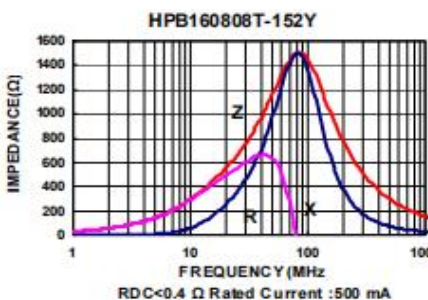
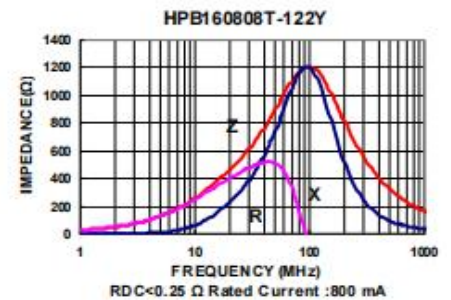
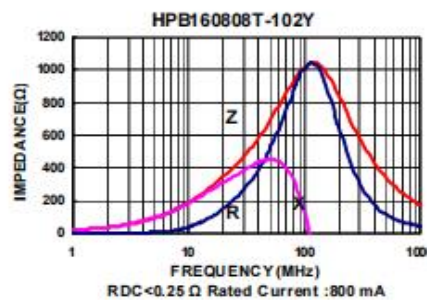
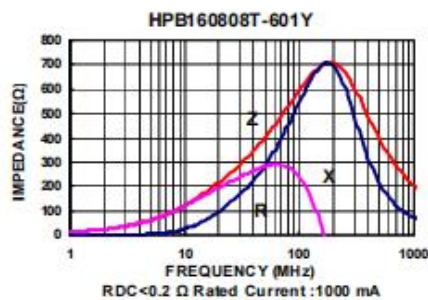
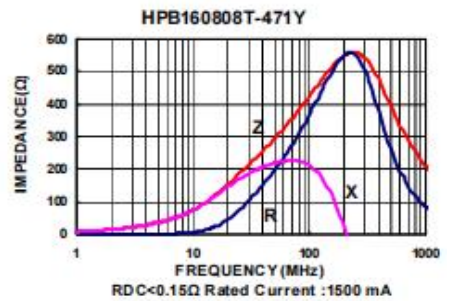
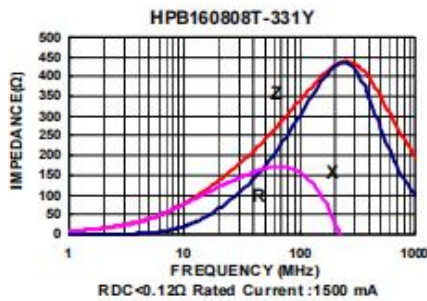
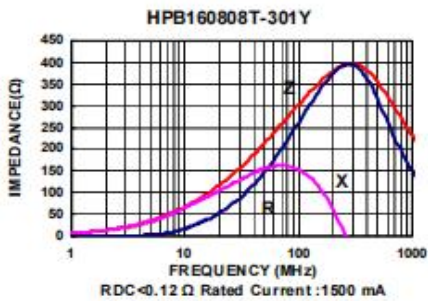
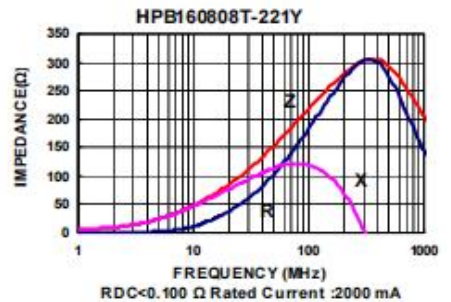
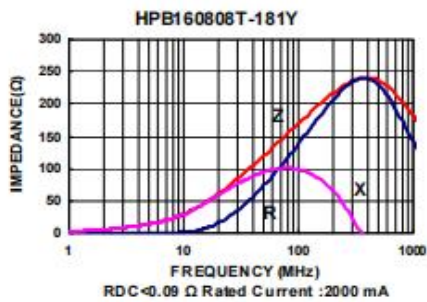
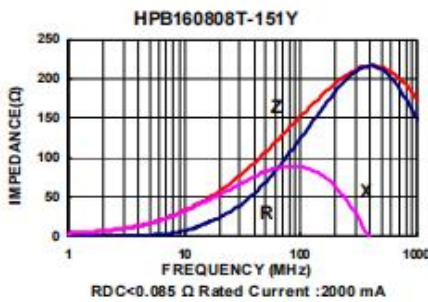
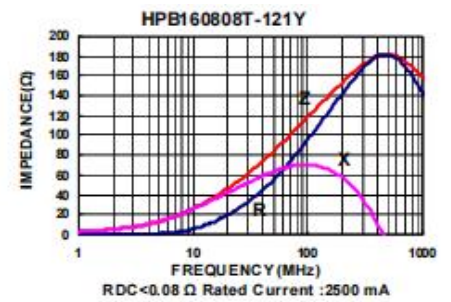
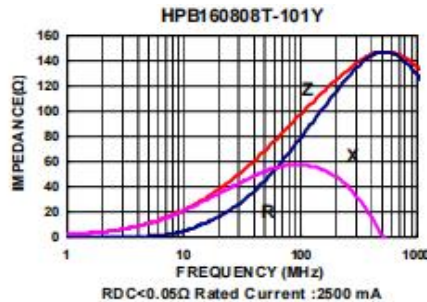
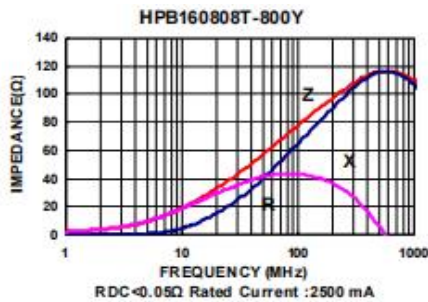
Test Instruments: Agilent E4991A Impedance / Material Analyzer

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SMD Multilayer Ferrite Chip Beads-HPB160808 Series-CA

Test Instruments: Agilent E4991A Impedance / Material Analyzer



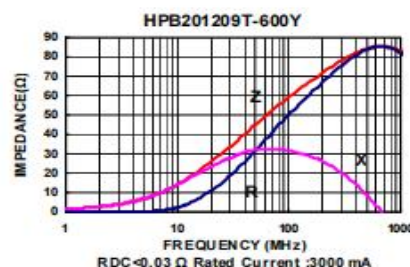
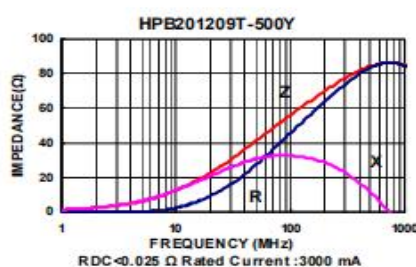
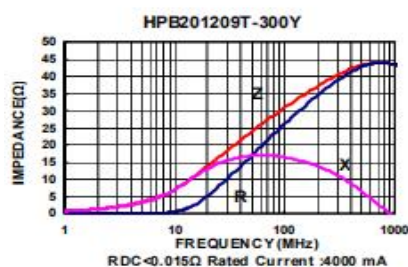
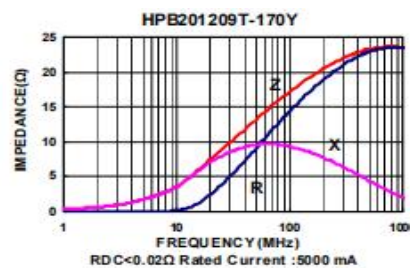
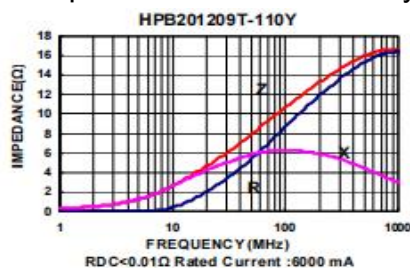
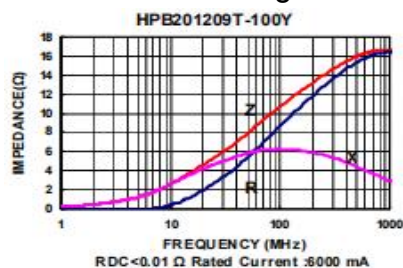
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**SMD Multilayer Ferrite Chip Beads-HPB201209 Series-CA****HPB201209 series Electrical Characteristics**

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HPB201209T-100Y-CA	10	25	100	0.010	6000
HPB201209T-110Y-CA	11	25	100	0.010	6000
HPB201209T-170Y-CA	17	25	100	0.020	5000
HPB201209T-300Y-CA	30	25	100	0.015	4000
HPB201209T-500Y-CA	50	25	100	0.025	3000
HPB201209T-600Y-CA	60	25	100	0.030	3000
HPB201209T-800Y-CA	80	25	100	0.040	3000
HPB201209T-101Y-CA	100	25	100	0.040	3000
HPB201209T-121Y-CA	120	25	100	0.040	3000
HPB201209T-221Y-CA	220	25	100	0.080	2000
HPB201209T-301Y-CA	300	25	100	0.080	2000
HPB201209T-331Y-CA	330	25	100	0.080	2000
HPB201209T-471Y-CA	470	25	100	0.100	2000
HPB201209T-601Y-CA	600	25	100	0.100	2000
HPB201209T-102Y-CA	1000	25	100	0.120	1500
HPB201209T-152Y-CA	1500	25	100	0.300	1000

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

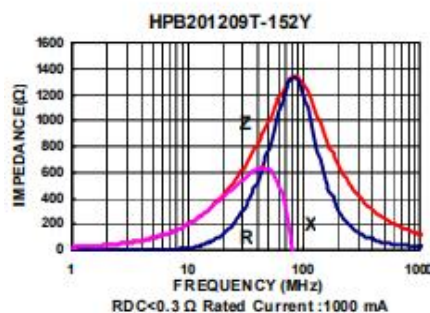
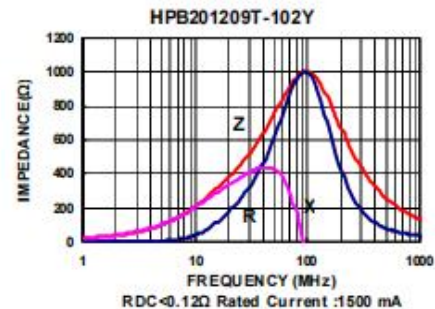
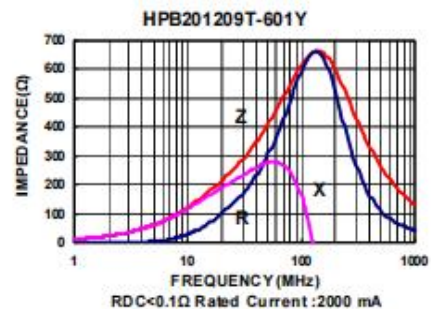
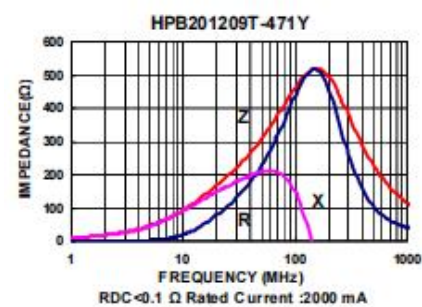
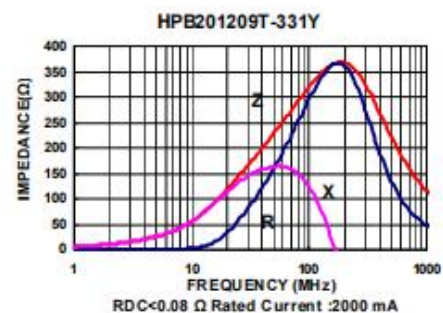
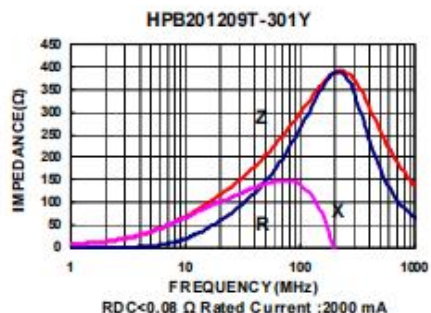
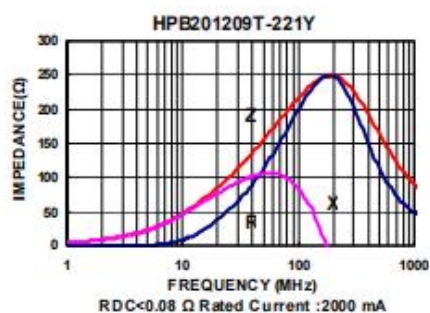
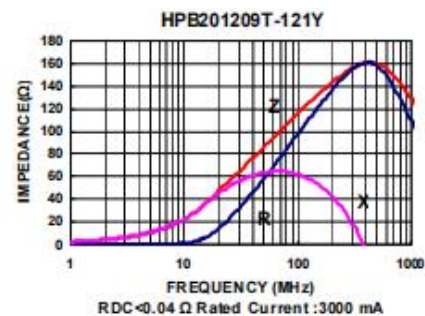
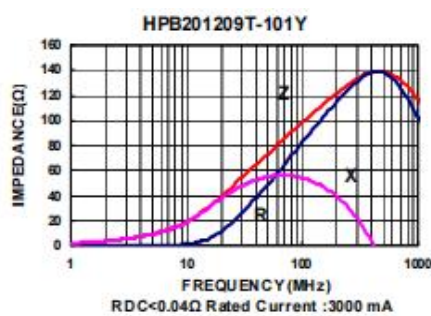
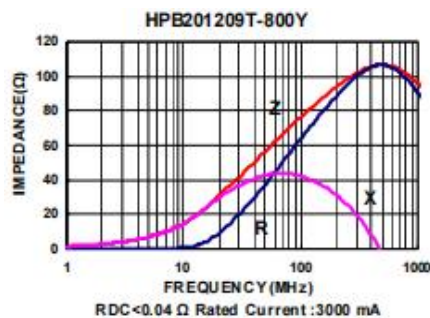
Test Instruments: Agilent E4991A Impedance / Material Analyzer

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-HPB201209 Series-CA

Test Instruments: Agilent E4991A Impedance / Material Analyzer



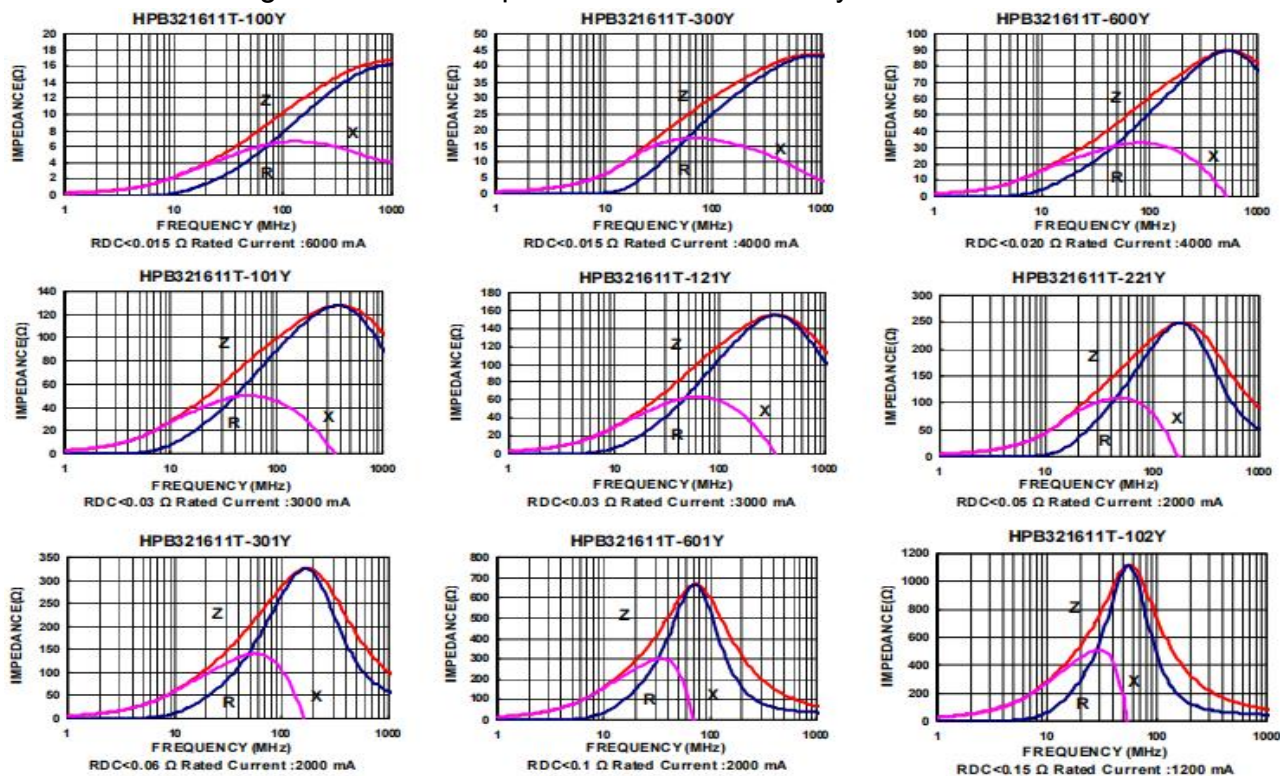
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

**SMD Multilayer Ferrite Chip Beads-HPB321611 Series-CA****HPB321611 series Electrical Characteristics**

Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HPB321611T-100Y-CA	10	25	100	0.015	6000
HPB321611T-300Y-CA	30	25	100	0.015	4000
HPB321611T-600Y-CA	60	25	100	0.020	4000
HPB321611T-101Y-CA	100	25	100	0.030	3000
HPB321611T-121Y-CA	120	25	100	0.030	3000
HPB321611T-221Y-CA	220	25	100	0.050	2000
HPB321611T-301Y-CA	300	25	100	0.060	2000
HPB321611T-601Y-CA	600	25	100	0.100	2000
HPB321611T-102Y-CA	1000	25	100	0.150	1200
HPB321611T-122Y-CA	1200	25	100	0.180	1000
HPB321611T-152Y-CA	1500	25	100	0.200	800

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

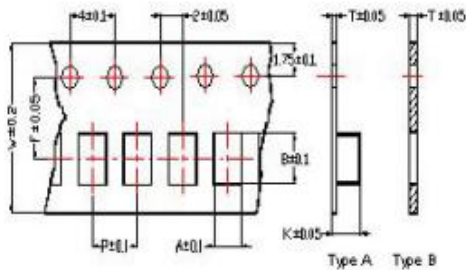
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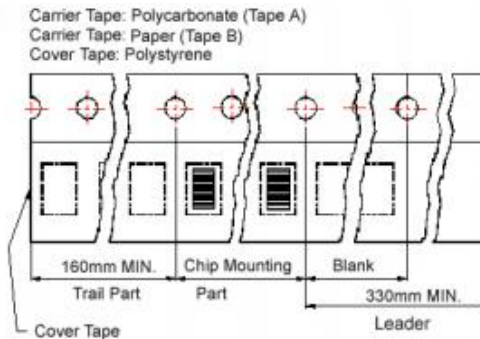
SMD Multilayer Ferrite Chip Beads-HPB Series-CA

Packaging Specifications

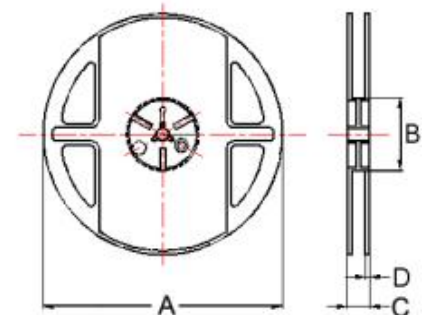
Tape Dimensions



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 / HPB / 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