



## SMD Multilayer Ferrite Chip Beads-HUPB 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

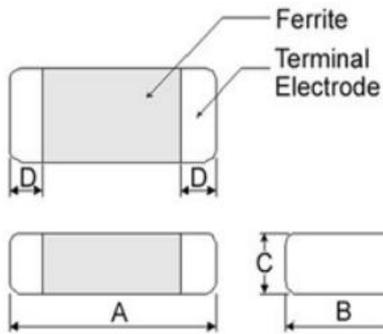


### ORDERING CODE(标志示例)

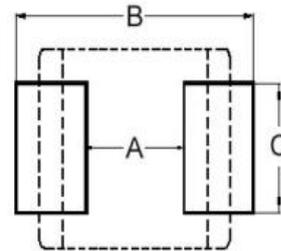
**HUPB**    □□□□    -    □□□    □  
(1)            (2)            (3)            (4)

- (1) HUPB 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-HUPB100505 Series

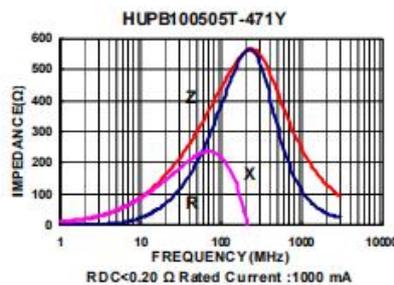
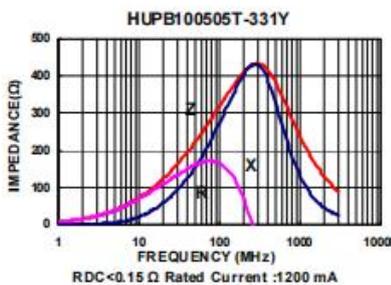
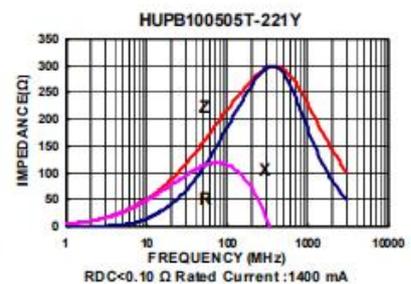
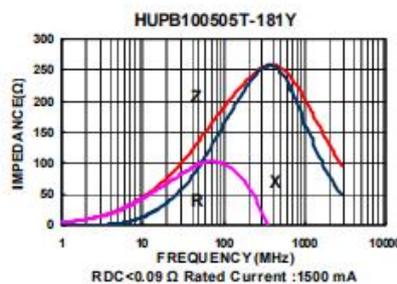
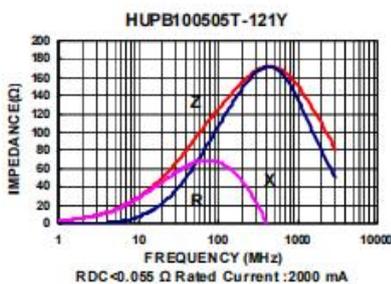
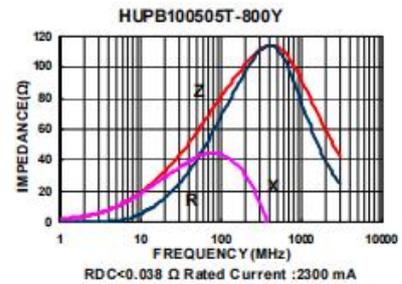
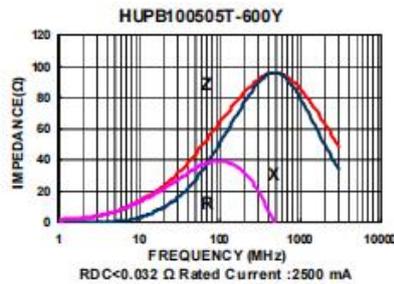
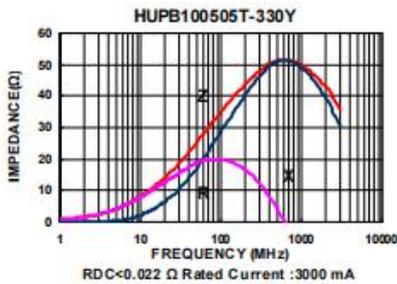
### HUPB100505 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HUPB100505T-330Y	33	25	100	0.022	3000
HUPB100505T-600Y	60	25	100	0.032	2500
HUPB100505T-800Y	80	25	100	0.038	2300
HUPB100505T-121Y	120	25	100	0.055	2000
HUPB100505T-181Y	180	25	100	0.090	1500
HUPB100505T-221Y	220	25	100	0.100	1400
HUPB100505T-331Y	330	25	100	0.150	1200
HUPB100505T-471Y	470	25	100	0.200	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  $30^{\circ}\text{C}$

**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-HUPB160805 Series

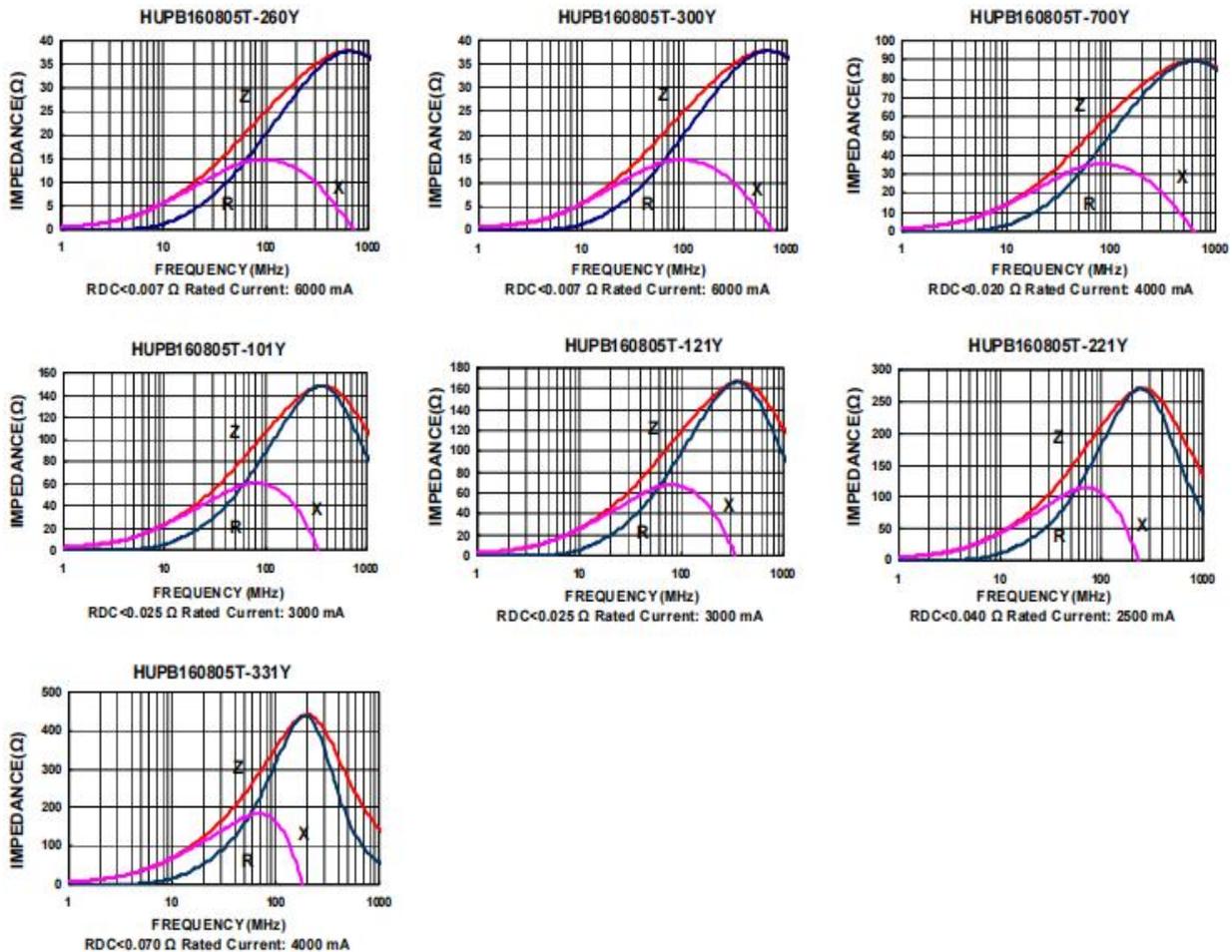
### HUPB160805 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HUPB160805T-260Y	26	25	100	0.007	6000
HUPB160805T-300Y	30	25	100	0.007	6000
HUPB160805T-700Y	70	25	100	0.020	4000
HUPB160805T-101Y	100	25	100	0.025	3000
HUPB160805T-121Y	120	25	100	0.025	3000
HUPB160805T-221Y	220	25	100	0.040	2500
HUPB160805T-331Y	330	25	100	0.070	1500

**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



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## SMD Multilayer Ferrite Chip Beads-HUPB160808 Series

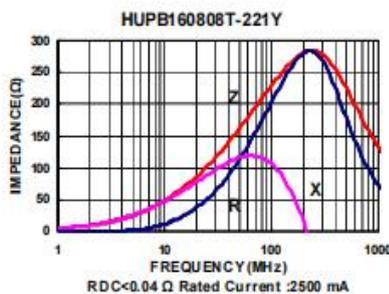
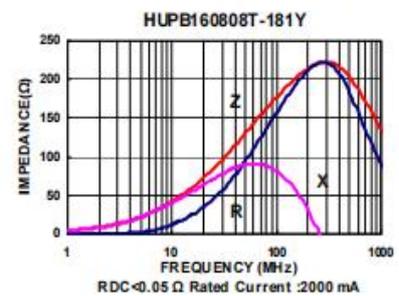
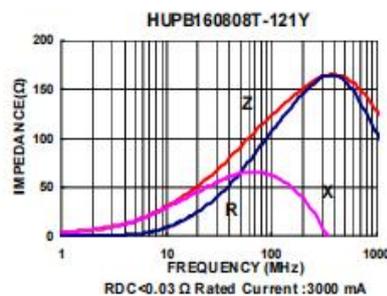
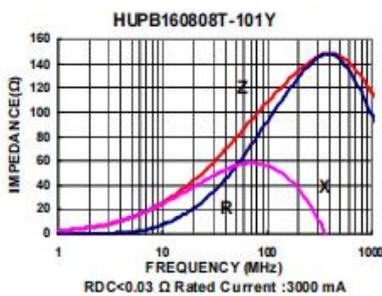
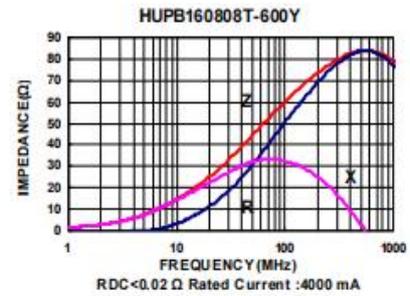
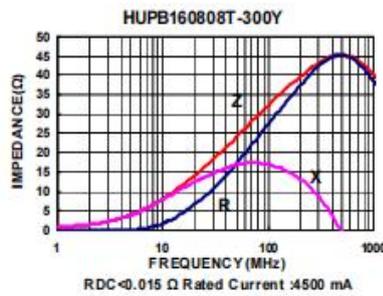
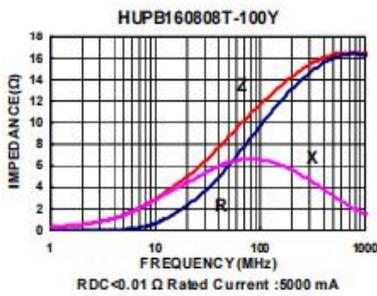
### HUPB160808 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HUPB160808T-100Y	10	25	100	0.010	5000
HUPB160808T-300Y	30	25	100	0.015	4500
HUPB160808T-600Y	60	25	100	0.020	4000
HUPB160808T-700Y	70	25	100	0.020	4000
HUPB160808T-101Y	100	25	100	0.030	3000
HUPB160808T-121Y	120	25	100	0.030	3000
HUPB160808T-181Y	180	25	100	0.050	2000
HUPB160808T-221Y	220	25	100	0.040	2500

**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



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## SMD Multilayer Ferrite Chip Beads-HUPB201209 Series

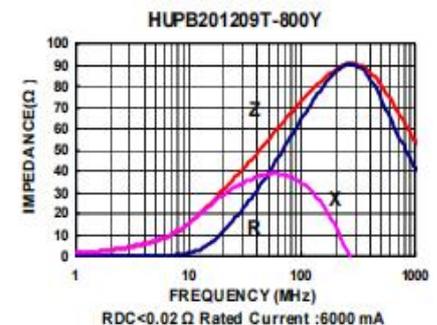
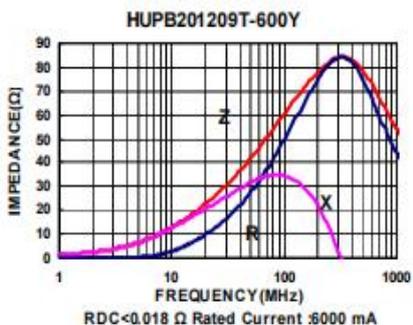
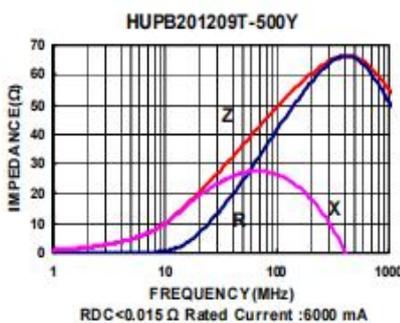
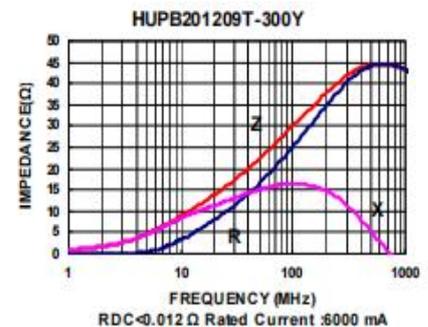
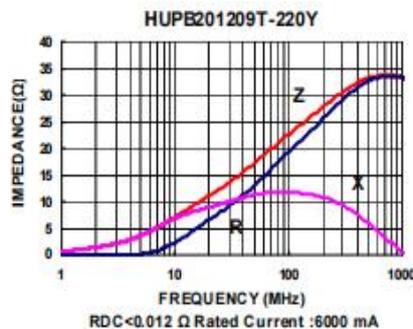
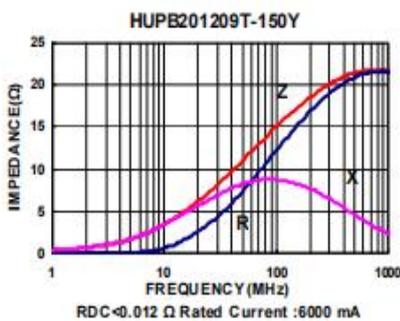
### HUPB201209 series Electrical Characteristics

Part No.	Impedance (Ω)	Tolerance (±%)	Test Freq. (MHz)	RDC (Ω)Max	Rated current (mA)Max
HUPB201209T-150Y	15	25	100	0.012	6000
HUPB201209T-220Y	22	25	100	0.012	6000
HUPB201209T-300Y	30	25	100	0.012	6000
HUPB201209T-500Y	50	25	100	0.015	6000
HUPB201209T-600Y	60	25	100	0.018	6000
HUPB201209T-800Y	80	25	100	0.020	6000
HUPB201209T-101Y	100	25	100	0.020	5000
HUPB201209T-121Y	120	25	100	0.020	5000
HUPB201209T-201Y	200	25	100	0.040	3000
HUPB201209T-221Y	220	25	100	0.040	3000
HUPB201209T-301Y	300	25	100	0.050	3000
HUPB201209T-331Y	330	25	100	0.050	3000

**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

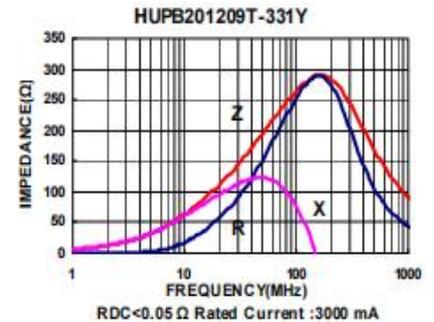
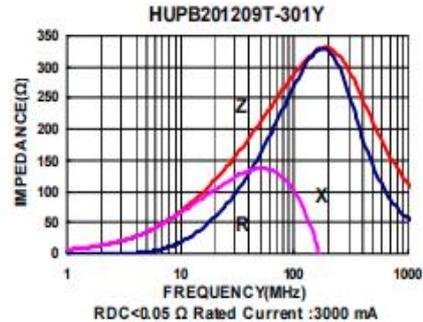
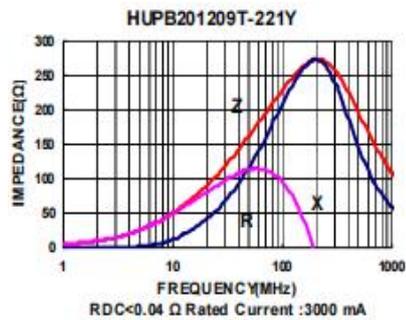
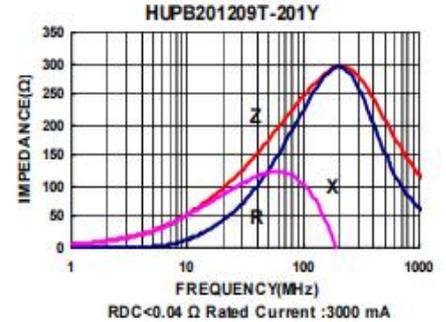
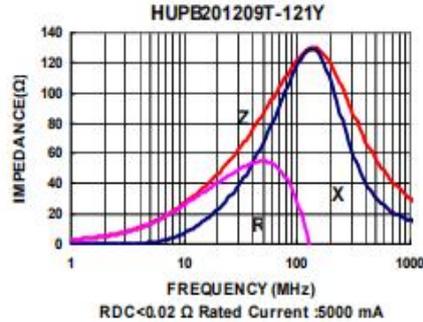
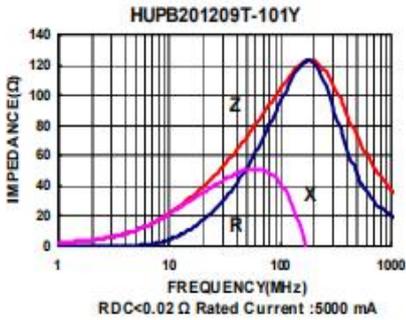


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## SMD Multilayer Ferrite Chip Beads-HUPB201209 Series

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



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## SMD Multilayer Ferrite Chip Beads-HUPB321611 Series

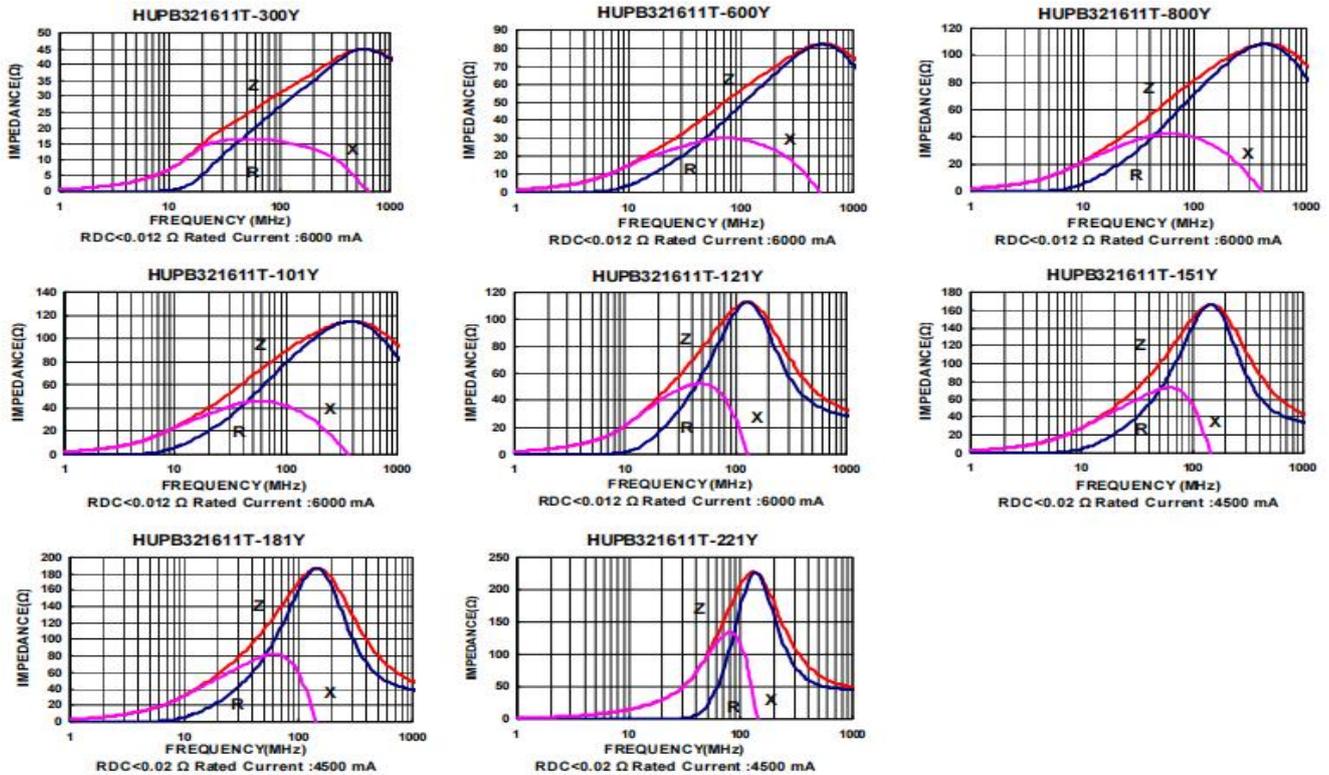
### HUPB321611 series Electrical Characteristics

Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	Rated current (mA)Max
HUPB321611T-300Y	30	25	100	0.012	6000
HUPB321611T-600Y	60	25	100	0.012	6000
HUPB321611T-800Y	80	25	100	0.012	6000
HUPB321611T-101Y	100	25	100	0.012	6000
HUPB321611T-121Y	120	25	100	0.012	6000
HUPB321611T-151Y	150	25	100	0.020	4500
HUPB321611T-181Y	180	25	100	0.020	4500
HUPB321611T-221Y	220	25	100	0.020	4500

**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



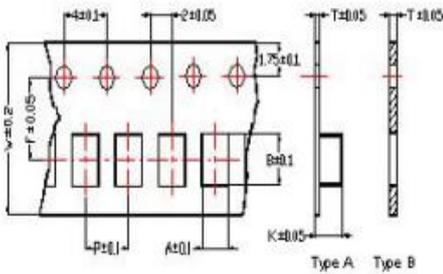
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## SMD Multilayer Ferrite Chip Beads-HUPB Series

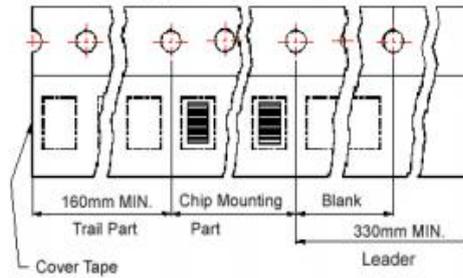
### Packaging Specifications

#### Tape Dimensions

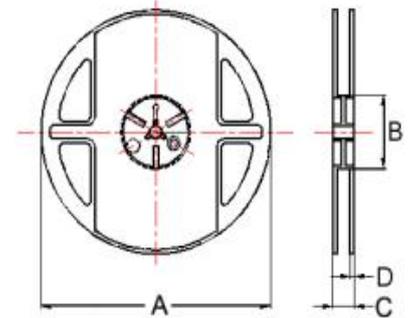


#### Tape Material

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 / 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