Cautions and Warnings

Please be noted that this spec is only for reference if you have projects designed with the product number listed in. If you are looking for new project design-in, please find BBFY Series specification/datasheet on Chilisin website. Or you may find our sales contact for more information on old part number at your convenience. Appreciated your attention and understanding.

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Multilayer Ferrite Chip Beads



Chilisin offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions. These ferrite formulas are used to compose seven types of EMI suppression chip beads: SB, GB, PB, UPB, NB, HF, and VPB series.

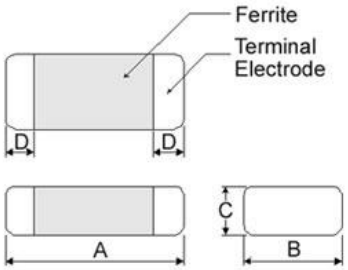
Product Identification

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- CEC Internal No.
- Tolerance
- Impedance
- Packaging Style
- Dimensions(A、B、C)
- Design code
- Product Symbol

- Product symbol: SB, GB, PB, UPB, NB, HF, VPB
- Packaging: T：Tape and Reel；B：Bulk
- Tolerance: Y = ± 25%; M = ± 20%; T:±30%
- Note: RoHS Compliant

Shape and Dimensions

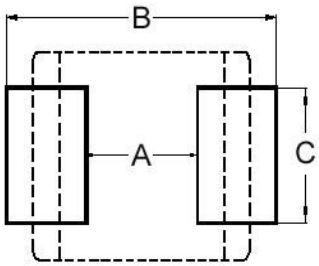


Dimensions in mm

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

①：SBY / SBJ / NB / PB ②：SBY / SBJ / NB / PB / UPB / HF
③：UPB ④：SBK / SBJ / GB / PB / NB / UPB / VPB
⑤：SBK / GB / PB / UPB ⑥：SBY / SBK / PBY / UPB

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
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	2.0	4.2 ~ 5.2	1.2

＊ Don't apply narrower pattern than listed above to PBY and UPB. Narrow pattern might cause excessive heat or open circuit.

Dimension Conversion

Code	Dimension in mm (AxBxC)	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	3.2x1.6x.1.1	1206

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Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
HFY100505T-221Y-N	220	100	270	1000	0.55	450
HFY100505T-301Y-N	300	100	450	1000	0.55	350
HFY100505T-471Y-N	470	100	650	1000	0.60	300
HFY100505T-601Y-N	600	100	1000	1000	0.7	300
HFY100505T-102Y-N	1000	100	1400	1000	1.1	250

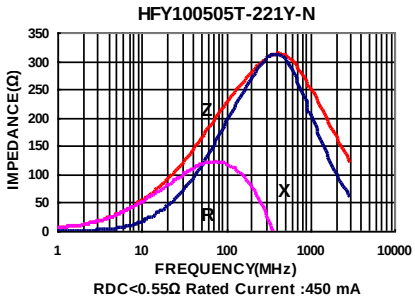
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

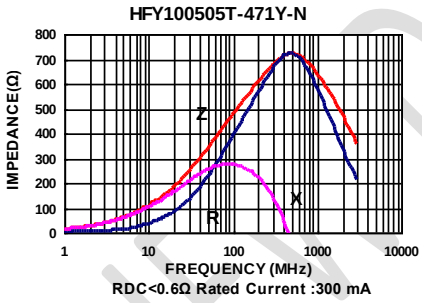
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

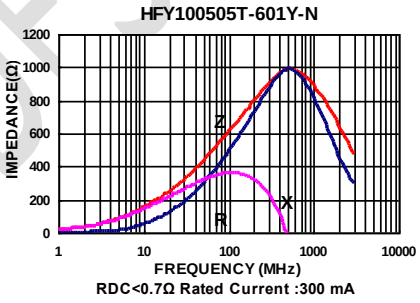
  Z：HP4291A

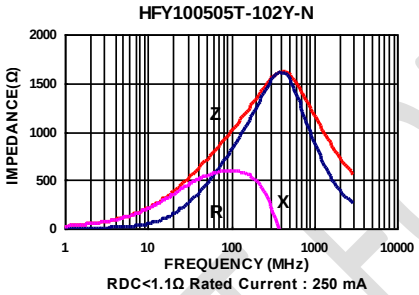
  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer









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Electrical Characteristics

Part Number	Impedance (Ω±25%)	Test Frequency (MHz)	Impedance (Ω±40%)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
HFY100505T-121Y-NP	120	100	150	1000	0.095	1500
HFY100505T-221Y-NP	220	100	270	1000	0.280	700

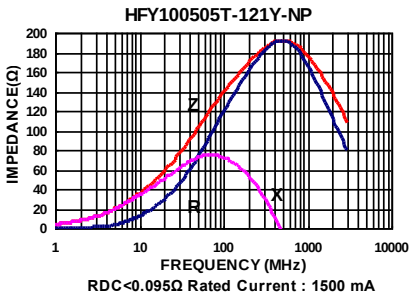
Note: When ordering, please specify tolerance code. Tolerance : Y=±25%

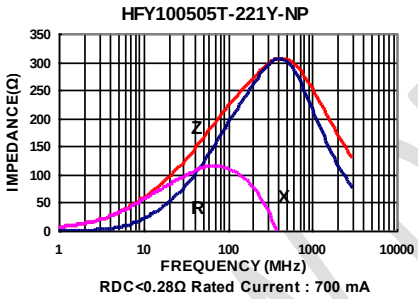
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rate Current：Applied the current to coils, the temperature rise shall not be more than 30℃
- Measure Equipment：

  Z：HP4291A

  RDC：HP4338B or CHEN HWA 502

Test Instruments：Agilent E4991A Impedance / Material Analyzer



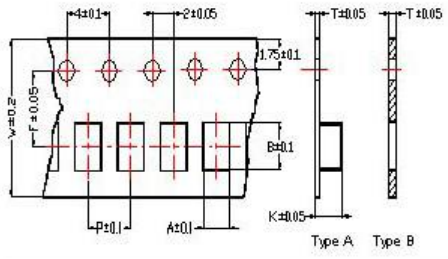


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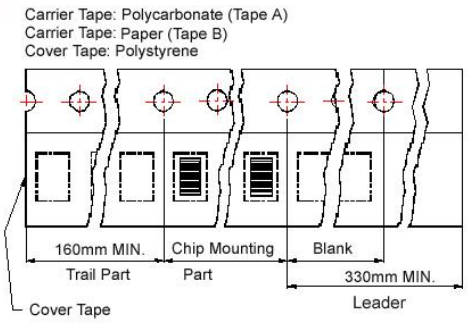
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Packaging Specifications

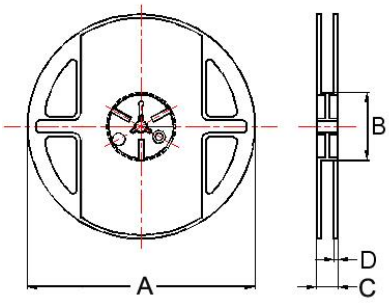
Tape Dimensions



Tape Material



Reel Dimensions



① : SBY / SBJ / NB / PB
② : SBY / SBJ / NB / PB / UPB / HF ③ : UPB
④ : SBK / SBJ / GB / PB / NB / UPB / VPB
⑤ : SBK / GB / PB / UPB ⑥ : SBY / SBK / PBY / UPB

Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / REEL
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

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Unikeyic Electronics

Global Electronic Components Distributor

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BKPB002012102R2MA2 BPSC00131345470M00 LVS808040-101M-N MRSC252A12-100M-N
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