

Molding Power Inductors – BEBE Series

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance ($\pm\%$)	Test Frequency (MHz)	RDC(m Ω) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)
BEBE001412F5R33MMA	0.33	20	1MHz,1V	32.0(26.0)	5.0(5.5)	3.0(3.3)
BEBE001412F5R47MMA	0.47	20	1MHz,1V	42.0(35.0)	3.0(3.3)	2.6(2.9)

Note:

- Operating temperature range -55°C to 125°C.
- Isat for Inductance drop 30% from its value without current.
- I rms for a 40°C temperature rise from 25°C ambient.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design 125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Absolute maximum voltage 15V DC. (Based on test method, it may not the same under different application, it is recommended to verify first.)

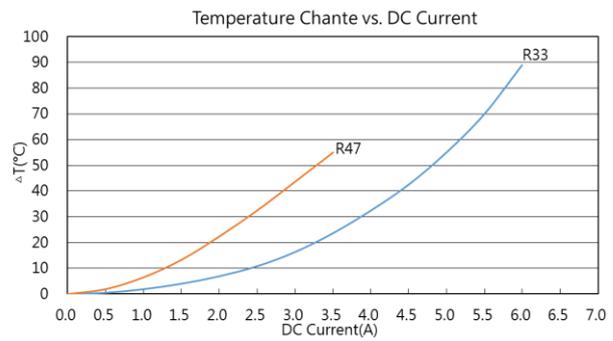
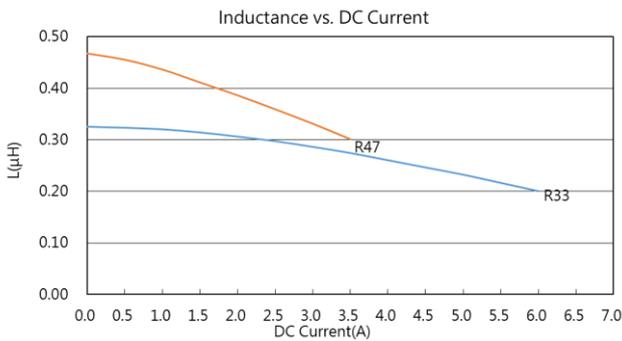
Test Instruments :

L : Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V

DCR : CHEN HWA502BC/HP4338B (or equivalent)

Isat : Agilent E4980A+HP42841A (or equivalent)

I rms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)



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BEBE00141208R24MMA	0.24	20	1MHz,1V	21.5(18.5)	6.5(7.1)	5.3(5.8)
BEBE00141208R33MMA	0.33	20	1MHz,1V	25.0(23.0)	4.5(5.0)	3.6(4.0)
BEBE00141208R47MMA	0.47	20	1MHz,1V	30.0(28.0)	4.0(4.5)	3.0(3.3)
BEBE001412081R0MMA	1.00	20	1MHz,1V	77.0(70.0)	2.5(2.8)	2.0(2.3)
BEBE00141208R33MMS	0.33	20	1MHz,1V	25.0(23.0)	5.5(5.7)	3.6(4.0)
BEBE00141208R47MMS	0.47	20	1MHz,1V	30.0(28.0)	4.8(5.0)	3.0(3.3)

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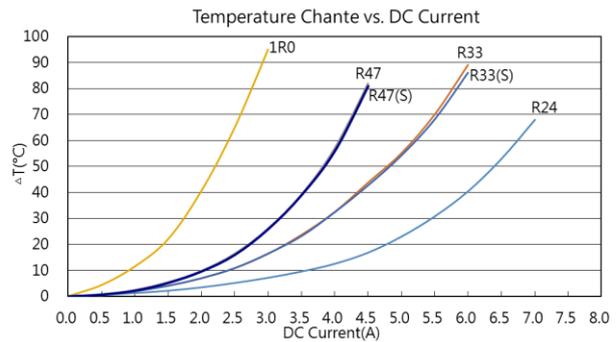
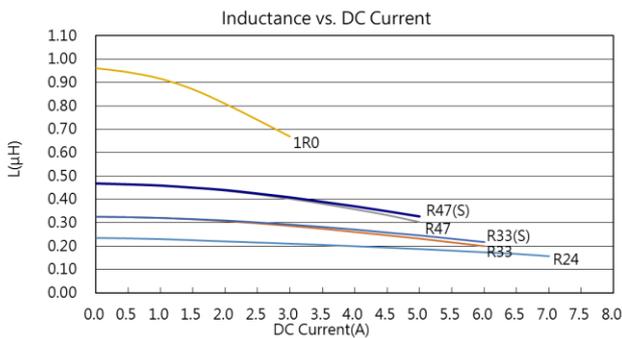
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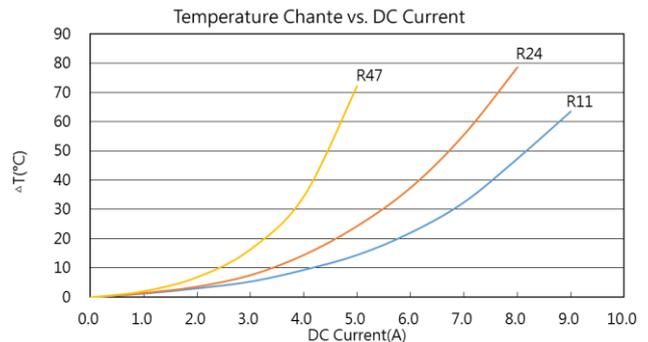
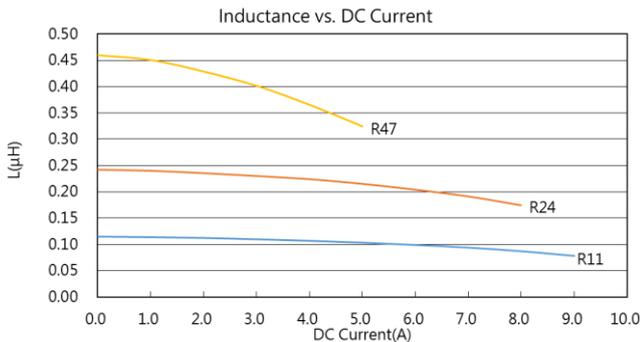
Part Number	Inductance (μH)	Tolerance ($\pm\%$)	Test Frequency (MHz)	RDC(m Ω) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)
BEBE00201208R11MMA	0.11	20	1MHz,1V	12.0(10.0)	8.6(9.1)	6.5(7.0)
BEBE00201208R24MMA	0.24	20	1MHz,1V	20.0(17.0)	7.9(8.3)	6.0(6.5)
BEBE00201208R47MMA	0.47	20	1MHz,1V	25.0(23.0)	4.3(4.8)	3.7(4.2)

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Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)
BEBE00201210R33MMA	0.33	20	1MHz,1V	20.0(18.0)	6.0(6.5)	4.7(5.3)
BEBE00201210R47MMA	0.47	20	1MHz,1V	24.0(21.0)	5.0(5.5)	4.2(4.7)
BEBE00201210R33MMS	0.33	20	1MHz,1V	16.0(13.0)	6.0(6.6)	5.0(5.5)
BEBE00201210R47MMS	0.47	20	1MHz,1V	20.0(16.5)	5.3(5.8)	4.5(5.0)

Note:

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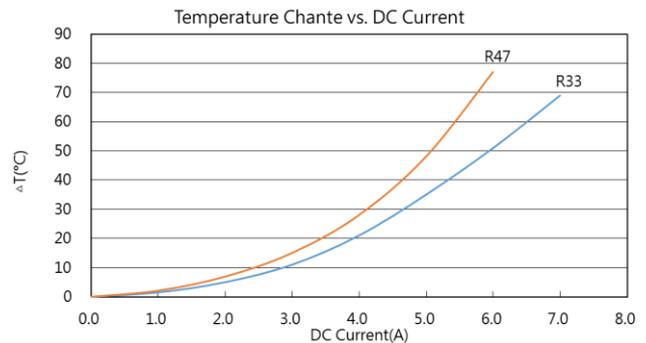
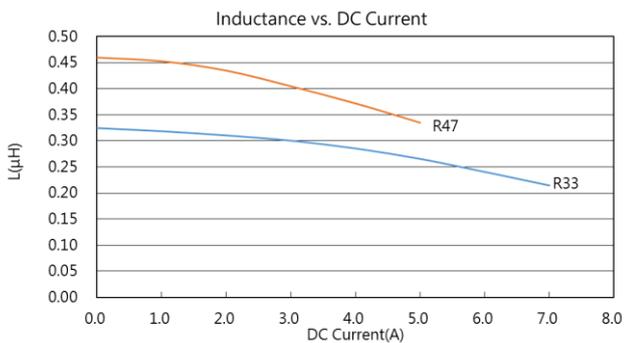
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Isat : Agilent E4980A+HP42841A (or equivalent)

I rms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)



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.

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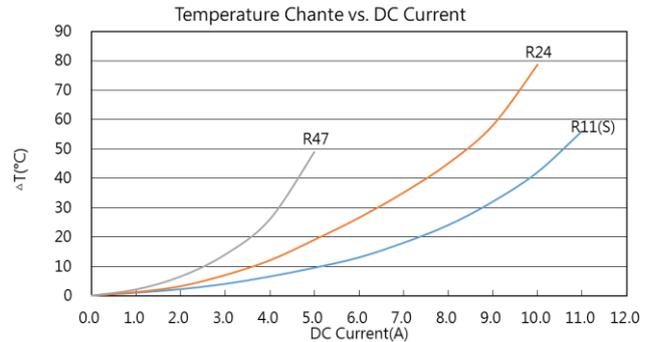
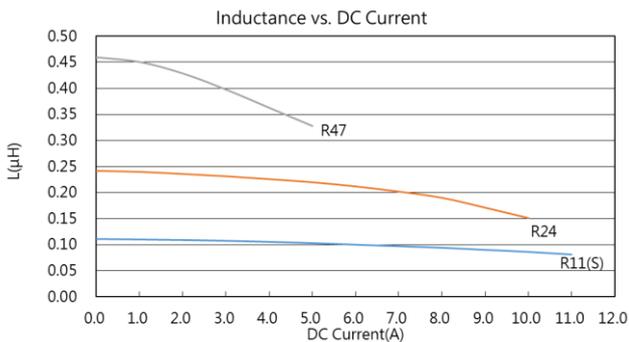
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BEBE00201212R11MMS	0.11	20	1MHz,1V	5.8(5.0)	11.0(11.5)	9.5(10.0)
BEBE00201212R24MMA	0.24	20	1MHz,1V	19.0(17.0)	8.5(9.0)	7.0(7.5)
BEBE00201212R47MMA	0.47	20	1MHz,1V	23.5(22.0)	5.0(5.5)	4.5(5.0)

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BEBE00252010R47MMB	0.47	20	1MHz,1V	25.0(19.0)	5.0(5.6)	3.7(4.3)
BEBE00252010R68MMA	0.68	20	1MHz,1V	18.5(16.0)	5.5(6.0)	5.0(5.5)
BEBE002520101R0MMA	1.00	20	1MHz,1V	25.0(18.0)	5.0(5.5)	5.2(5.7)
BEBE002520102R2MMA	2.20	20	1MHz,1V	77.0(70.0)	2.5(3.0)	2.6(2.9)

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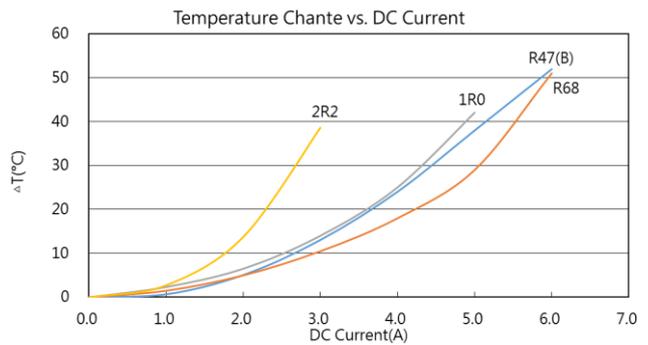
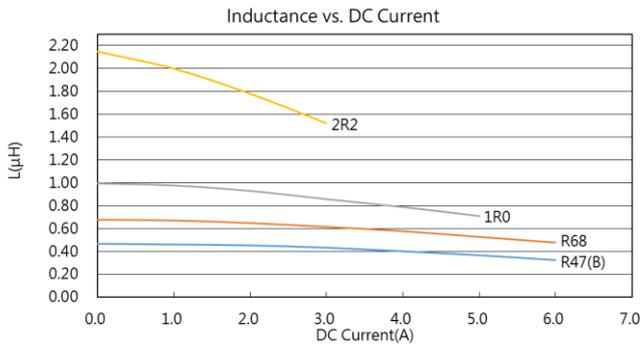
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BEBE00252012R22MMA	0.22	20	1MHz,1V	8.5(7.0)	9.0(10.5)	8.0(9.0)
BEBE00252012R47MMA	0.47	20	1MHz,1V	13.5(11.0)	6.7(7.4)	6.0(6.7)
BEBE002520121R0MMA	1.00	20	1MHz,1V	29.0(27.0)	5.0(5.5)	5.0(5.5)
BEBE002520121R5MMA	1.50	20	1MHz,1V	45.0(40.0)	4.0(4.3)	3.5(4.0)
BEBE00252012R22MMB	0.22	20	1MHz,1V	13.0(10.0)	9.0(9.5)	8.0(8.5)
BEBE00252012R47MMB	0.47	20	1MHz,1V	23.0(18.0)	5.9(6.5)	6.0(6.3)
BEBE002520121R0MMB	1.00	20	1MHz,1V	32.0(27.0)	4.3(4.9)	4.2(5.0)

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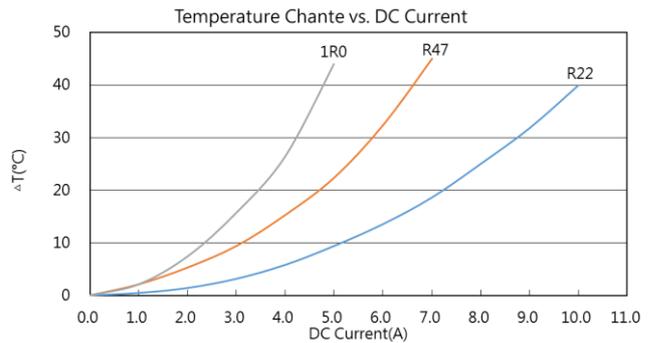
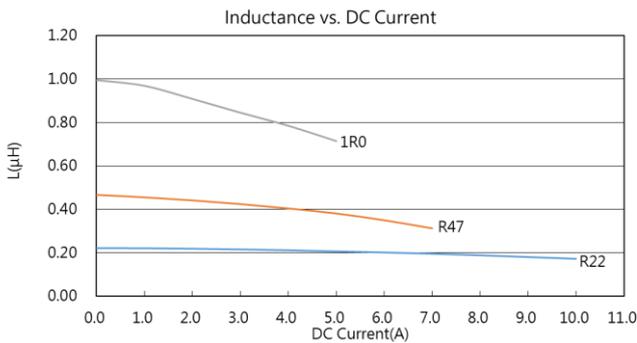
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BEBE0032250880NMMA	0.08	20	1MHz,1V	4.2(3.9)	14.5(15.5)	8.0(9.0)

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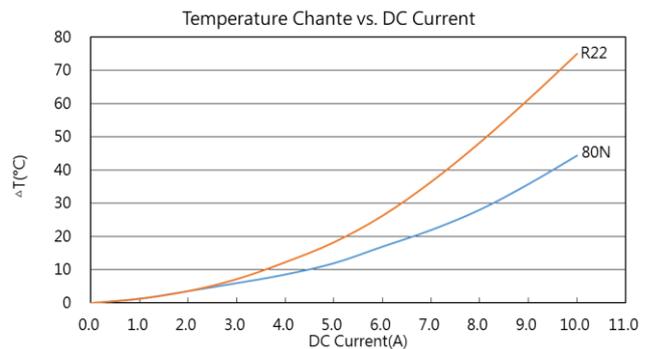
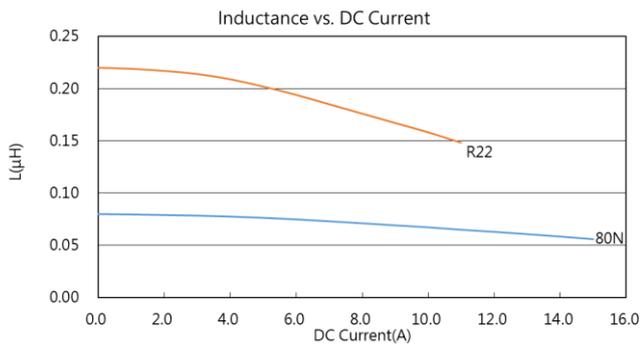
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BEBE00322510R47MMA	0.47	20	1MHz,1V	16.0(14.0)	10.0(10.5)	9.5(10.0)

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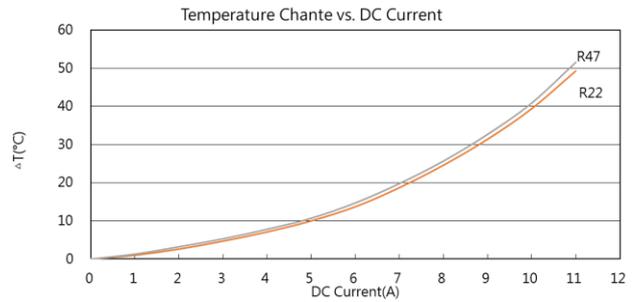
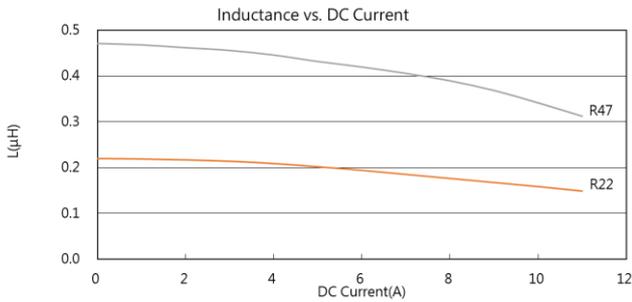
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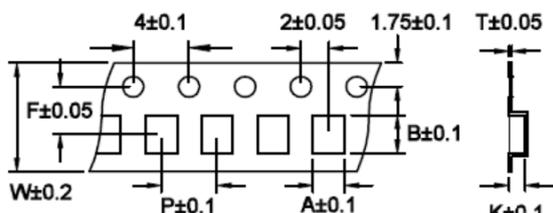
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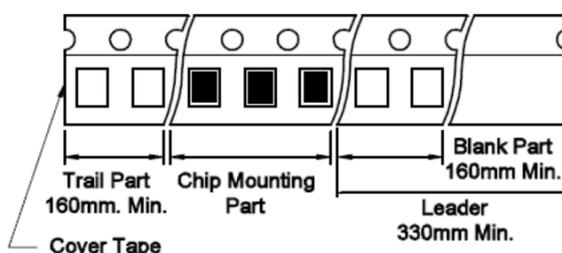
Packaging Specifications

Tape Dimensions

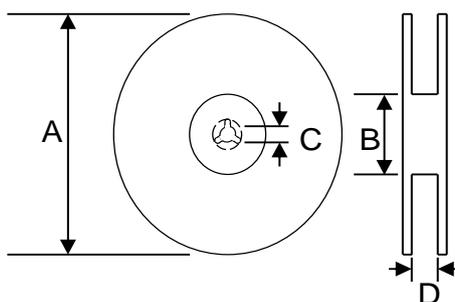


Tape Material

Tape Material
 Carrier Tape: Polycarbonate
 Cover Tape: Polyethylene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	A	B	C	D	
BEBE001412F5	1.50	1.70	0.22	8	4	3.5	0.80	178	60	13	8	3000
BEBE00141208	1.50	1.70	0.22	8	4	3.5	1.04	178	60	13	8	3000
BEBE00201208	1.50	2.30	0.22	8	4	3.5	1.04	178	60	13	8	3000
BEBE00201210	1.50	2.30	0.22	8	4	3.5	1.15	178	60	13	8	3000
BEBE00201212	1.50	2.30	0.22	8	4	3.5	1.35	178	60	13	8	3000
BEBE00252010	2.30	2.80	0.25	8	4	3.5	1.15	178	60	13	8	3000
BEBE00252012	2.30	2.80	0.25	8	4	3.5	1.35	178	60	13	8	3000
BEBE00322508	2.80	3.50	0.25	8	4	3.5	1.04	178	60	13	8	3000
BEBE00322510	2.80	3.50	0.25	8	4	3.5	1.35	178	60	13	8	2000