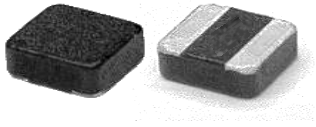


## BEBE Series



The BEBE Series is designed specifically to enhance the performance of both PFM and PWM applications. The Rac value at light load and the DCR value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

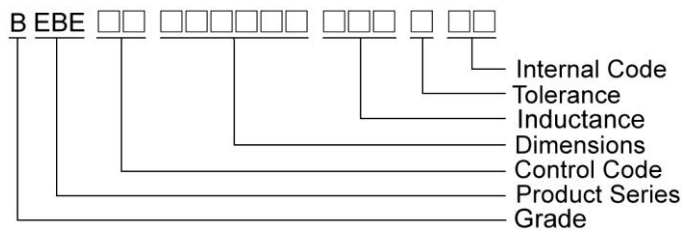
### Features

- RoHS, Halogen Free and REACH Compliance
- High performance (Isat) realized by metal dust core.
- Low coil resistance with large currents.

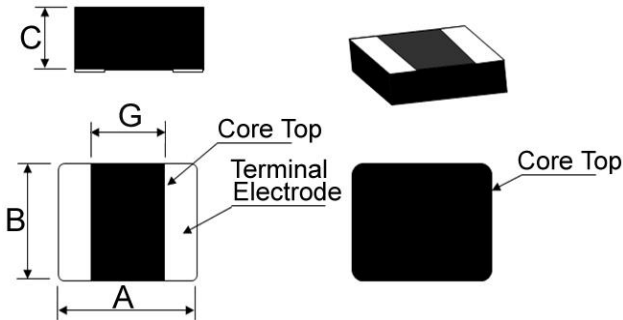
### Applications

- Smartphones, wearable devices, Pad, Notebook

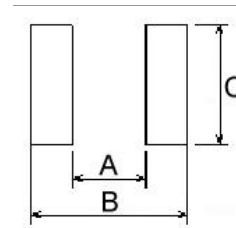
### Product Identification



### Shape and Dimensions



### Recommended Pattern



Dimensions in mm

TYPE	A	B	C	G
BEBE001412F5	1.4±0.2	1.2±0.2	0.65Max	0.53
BEBE00141208	1.4±0.2	1.2±0.2	0.8Max	0.53
BEBE00201208	2.0±0.2	1.2±0.2	0.8Max	0.6
BEBE00201210	2.0±0.2	1.2±0.2	1.0Max	0.6
BEBE00201212	2.0±0.2	1.2±0.2	1.2Max	0.6
BEBE00252010	2.5±0.2	2.0±0.2	1.0Max	0.7
BEBE00252012	2.5±0.2	2.0±0.2	1.2Max	0.7
BEBE00322508	3.2±0.2	2.5±0.2	0.8Max	0.9
BEBE00322510	3.2±0.2	2.5±0.2	1.2Max	0.9
BEBE00303010	3.1±0.2	2.9±0.2	1.0Max	1.1

Dimensions in mm

TYPE	A	B	C
BEBE001412F5	0.5	1.6	1.4
BEBE00141208	0.5	1.6	1.4
BEBE00201208	0.5	2.2	1.4
BEBE00201210	0.5	2.2	1.4
BEBE00201212	0.5	2.2	1.4
BEBE00252010	0.6	2.7	2.2
BEBE00252012	0.6	2.7	2.2
BEBE00322508	0.8	3.7	2.8
BEBE00322510	0.8	3.7	2.8
BEBE00303010	1.2	3.4	3.2

# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE001412F5R24MMA	0.24	20	1MHz, 1V	28.0(25.0)	5.5(6.0)	4.0(4.5)
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: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC (Based on test method, it may not be the same under different application, it is recommended to verify first.)

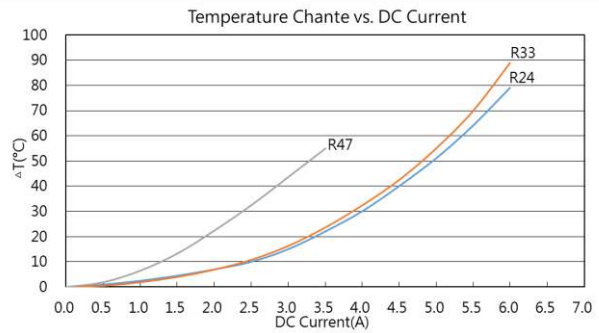
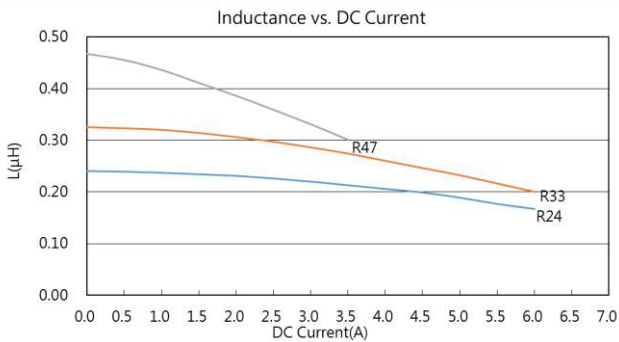
## Test Instruments :

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

DCR : CHEN HWA502BC/HP4338B (or equivalent)

Isat : Agilent E4980A+HP42841A (or equivalent)

Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)



# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
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)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or I rms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application, it is recommended to verify first.)

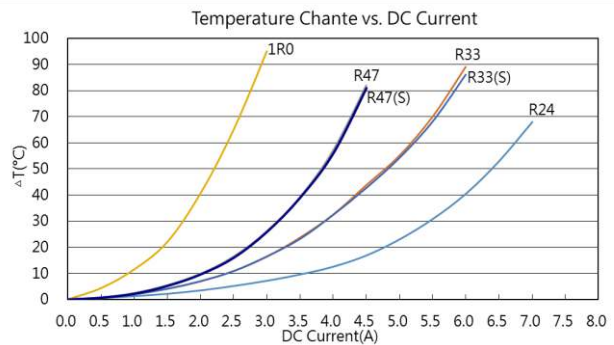
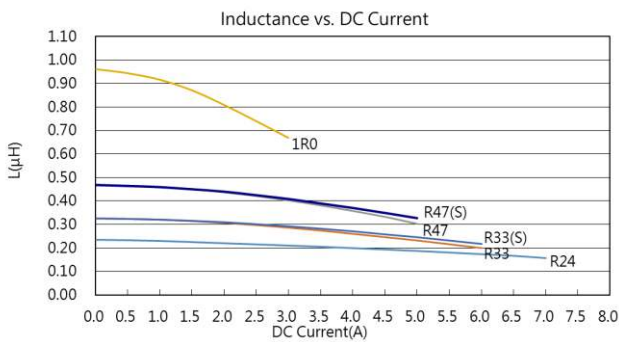
## Test Instruments :

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)



# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) 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)
BEBE00201208R33MMA	0.33	20	1MHz,1V	23.0(19.0)	6.0(6.5)	4.7(5.3)
BEBE00201208R47MMA	0.47	20	1MHz,1V	25.0(23.0)	4.3(4.8)	3.7(4.2)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or I rms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application, it is recommended to verify first.)

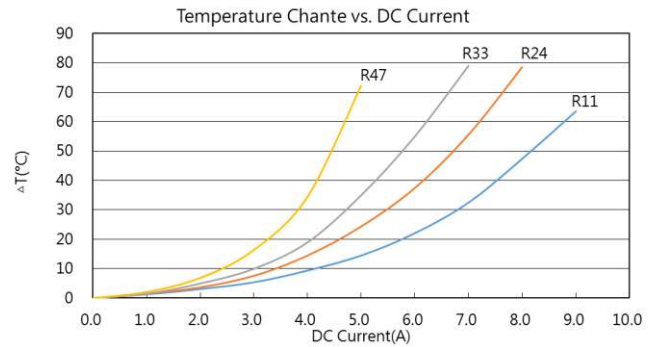
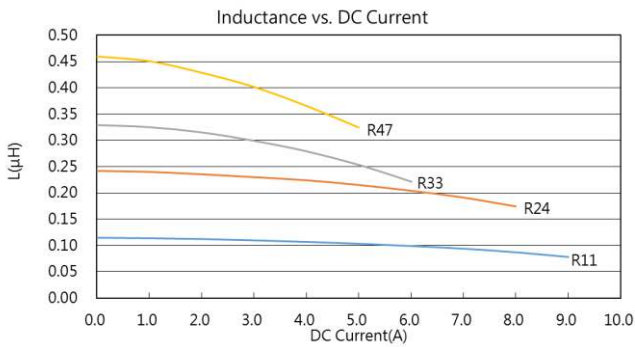
## Test Instruments :

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)



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.

# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	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)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or I rms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application,it is recommended to verify first.)

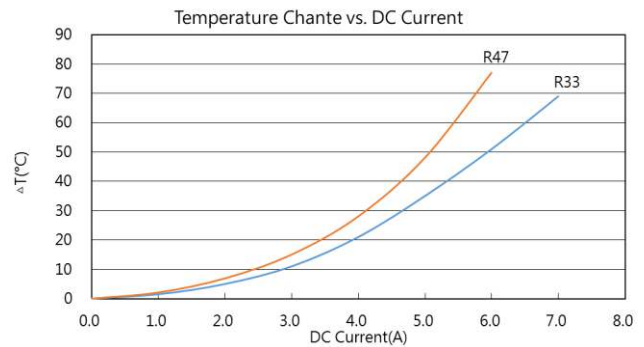
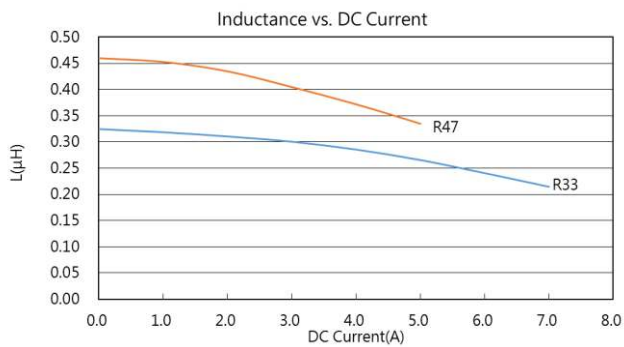
## Test Instruments :

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)



# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	D Irms(A) Max(Typ)
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)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC (Based on test method, it may not be the same under different application, it is recommended to verify first.)

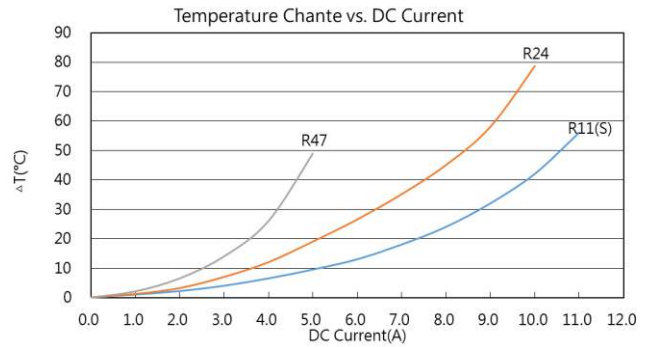
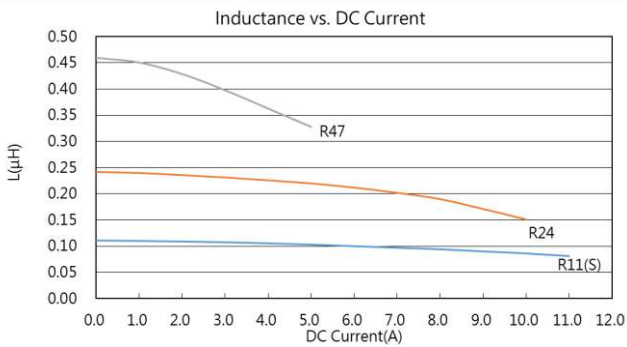
## Test Instruments :

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

DCR : CHEN HWA502BC/HP4338B (or equivalent)

Isat : Agilent E4980A+HP42841A (or equivalent)

Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)



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# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
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)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application, it is recommended to verify first.)

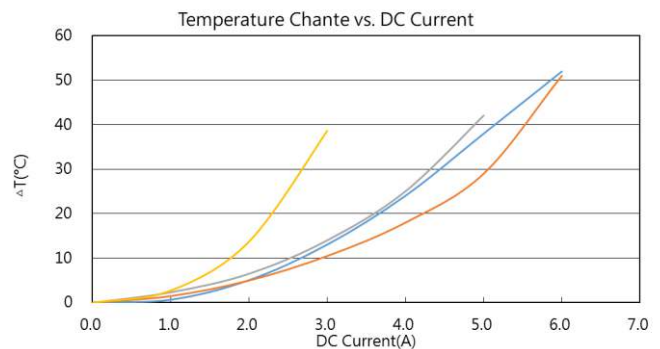
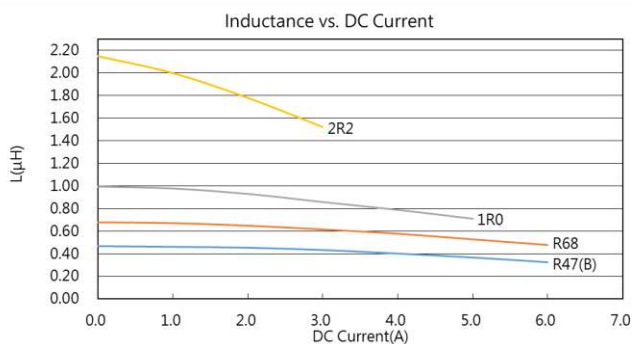
## Test Instruments :

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

DCR : CHEN HWA502BC/HP4338B (or equivalent)

Isat : Agilent E4980A+HP42841A (or equivalent)

Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)



# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
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)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or I rms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application,it is recommended to verify first.)

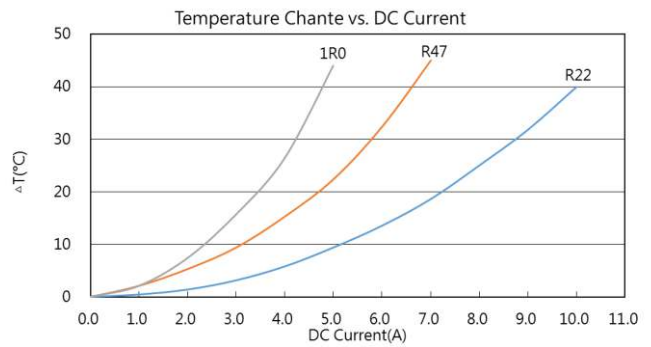
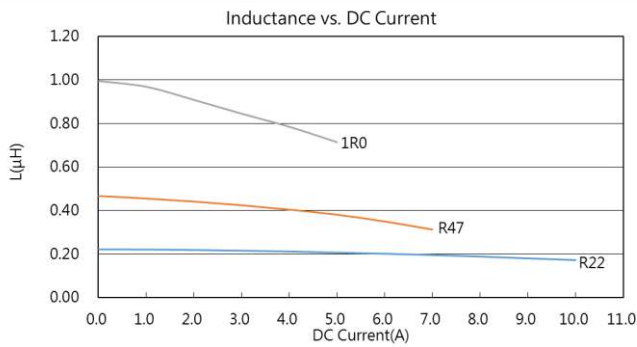
## Test Instruments :

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)





# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE0032250880NMMA	0.08	20	1MHz,1V	4.2(3.9)	14.5(15.5)	8.0(9.0)
BEBE00322510R22MMA	0.22	20	1MHz,1V	12.5(10.5)	10.0(11.0)	7.0(7.5)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range –40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application,it is recommended to verify first.)

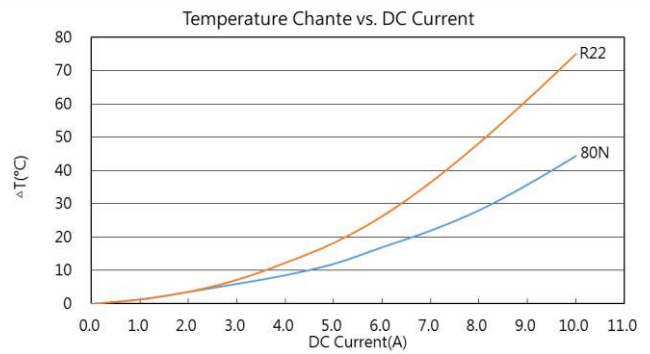
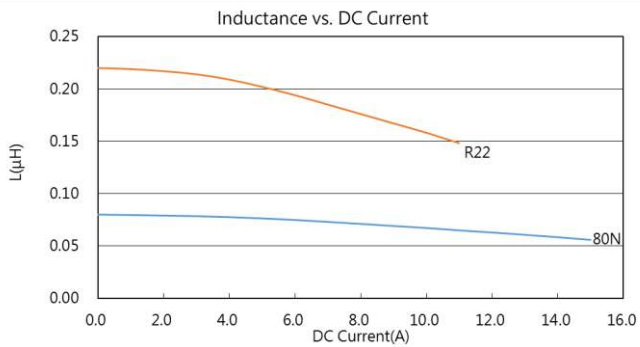
## Test Instruments :

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

DCR : CHEN HWA502BC/HP4338B (or equivalent)

Isat : Agilent E4980A+HP42841A (or equivalent)

Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)



# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE003030101R0MMA	1.00	20	1MHz,1V	30.0(27.0)	6.3(6.8)	5.3(5.8)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or I rms, whichever is smaller
- Absolute maximum voltage 15VDC( Based on test method, it may not the same under different application,it is recommended to verify first.)

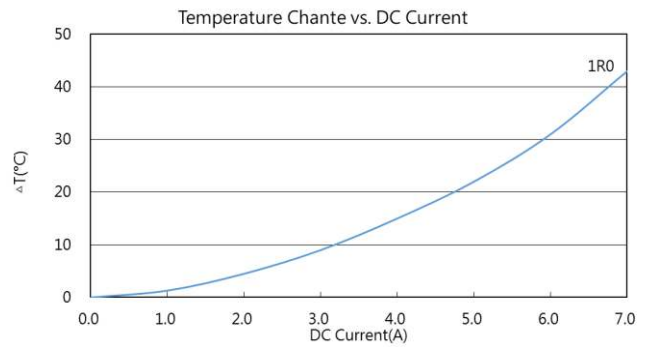
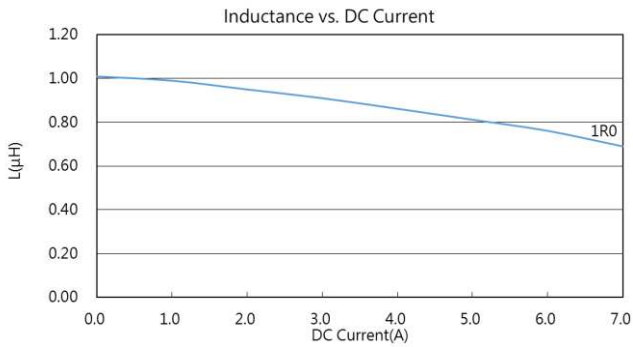
## Test Instruments :

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

DCR : CHEN HWA502BC/HP4338B (or equivalent)

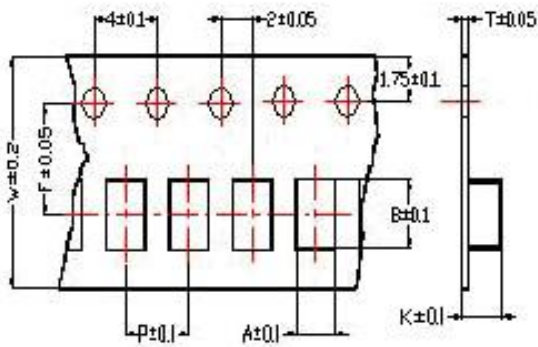
Isat : Agilent E4980A+HP42841A (or equivalent)

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

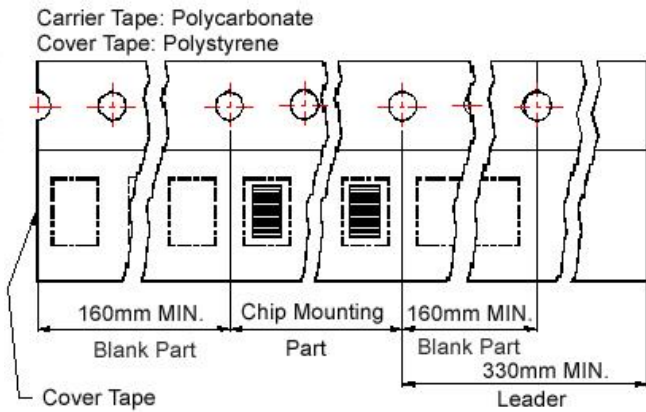


## Packaging Specifications

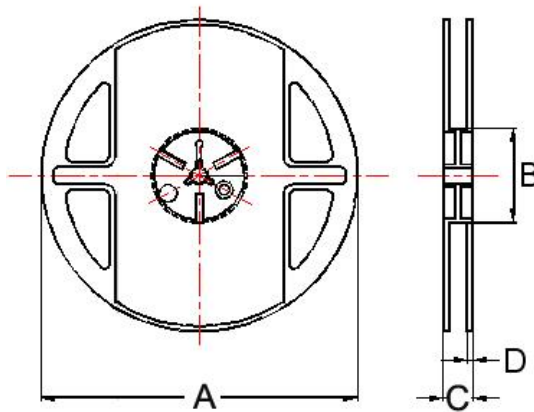
Tape Dimensions



Tape Material



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	12	1.5	3000
BEBE00141208	1.50	1.70	0.22	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00201208	1.50	2.30	0.22	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00201210	1.50	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BEBE00201212	1.50	2.30	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BEBE00252010	2.30	2.80	0.25	8	4	3.5	1.15	178	60	12	1.5	3000
BEBE00252012	2.30	2.80	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
BEBE00322508	2.80	3.50	0.25	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00322510	2.80	3.50	0.25	8	4	3.5	1.35	178	60	12	1.5	2000
BEBE00303010	3.35	3.50	0.25	8	4	3.5	1.15	178	60	12	1.5	2000