

## 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.

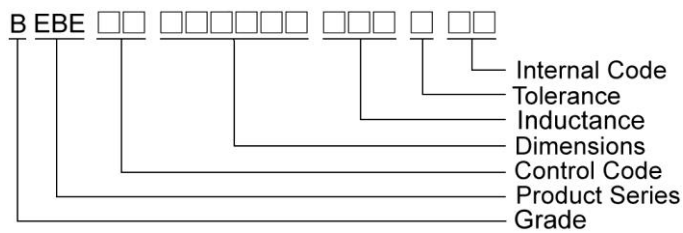
### Features

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

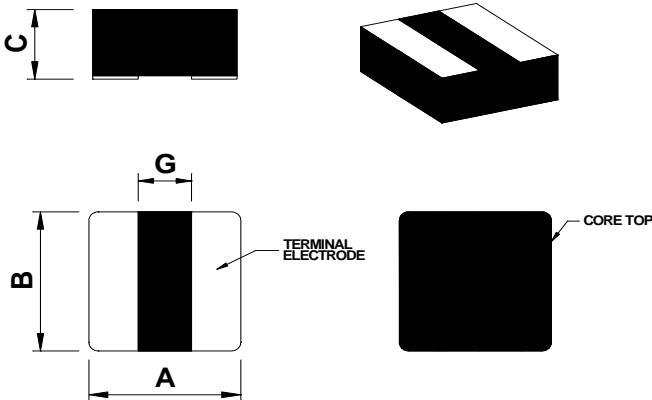
### Applications

- Smartphones, wearable devices, Pad, Notebook

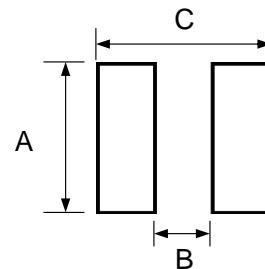
### Product Identification



### 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

Dimensions in mm

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

# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance ( $\pm\%$ )	Test Frequency (MHz)	RDC(m $\Omega$ ) 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.)

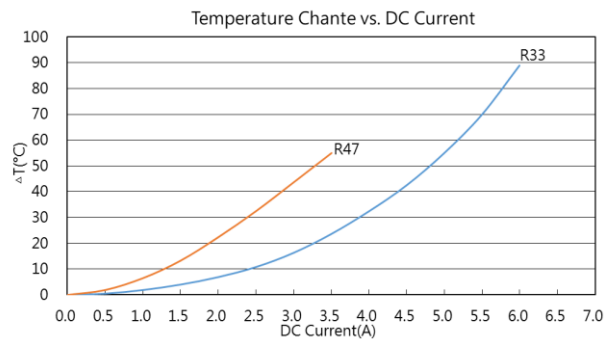
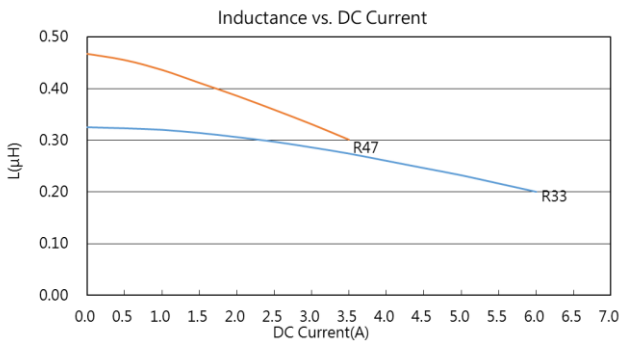
### Test Instruments :

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)



# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (μH)	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)
BEBE00141208R1R0MMA	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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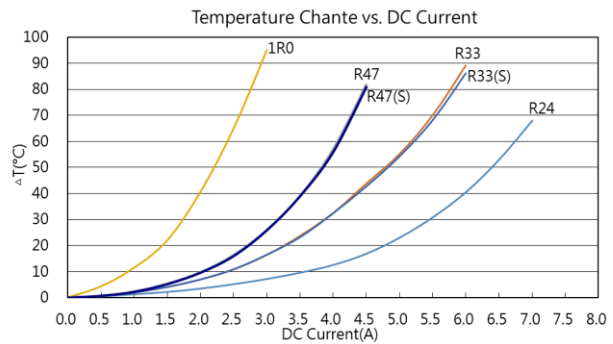
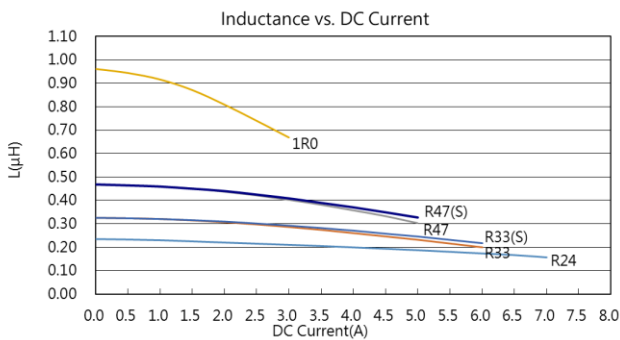
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# Molding Power Inductors – BEBE Series

## Electrical Characteristics

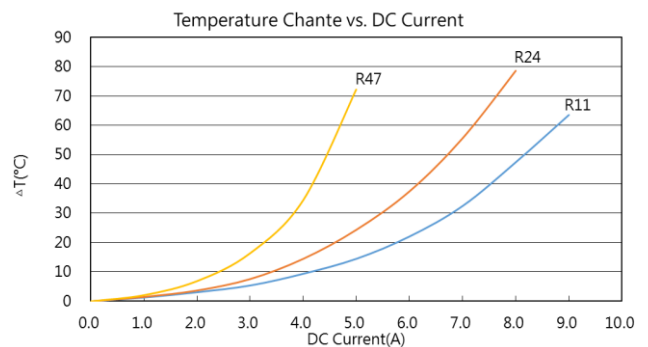
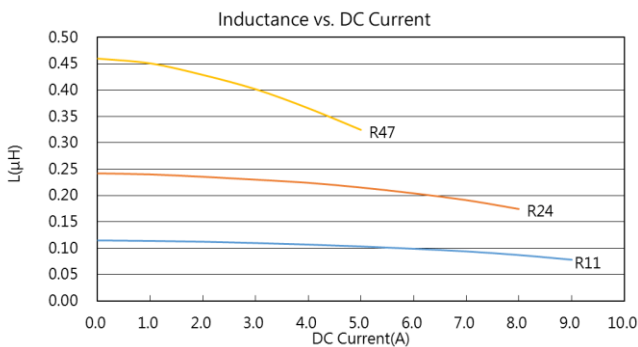
Part Number	Inductance ( $\mu\text{H}$ )	Tolerance ( $\pm\%$ )	Test Frequency (MHz)	RDC(m $\Omega$ ) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)
BEBE00201208R11MMA	0.11	20	1MHz,1V	12.0(10.0)	8.6(9.1)	6.5(7.0)
BEBE00201208R24MMA	0.24	20	1MHz,1V	20.0(17.0)	7.9(8.3)	6.0(6.5)
BEBE00201208R47MMA	0.47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

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- Absolute maximum voltage 15V DC. (Based on test method, it may not the same under different application, it is recommended to verify first.)

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# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance ( $\mu\text{H}$ )	Tolerance ( $\pm\%$ )	Test Frequency (MHz)	RDC(m $\Omega$ ) 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)

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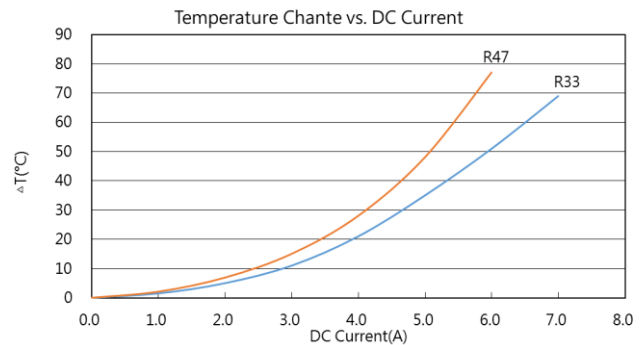
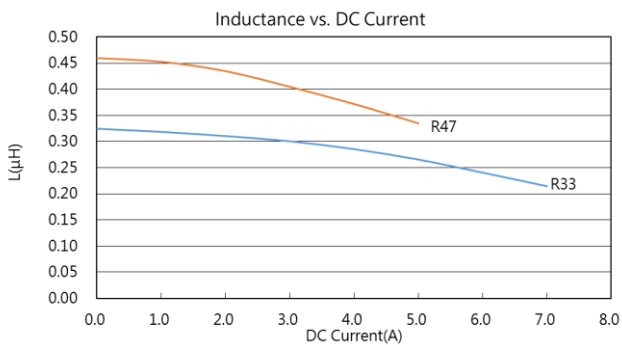
### Test Instruments :

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Isat : Agilent E4980A+HP42841A (or equivalent)

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# Molding Power Inductors – BEBE Series

## Electrical Characteristics

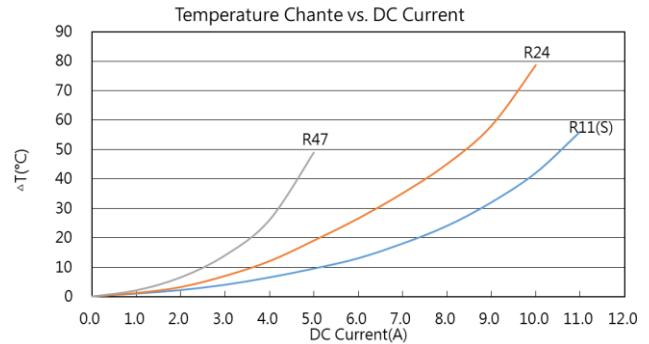
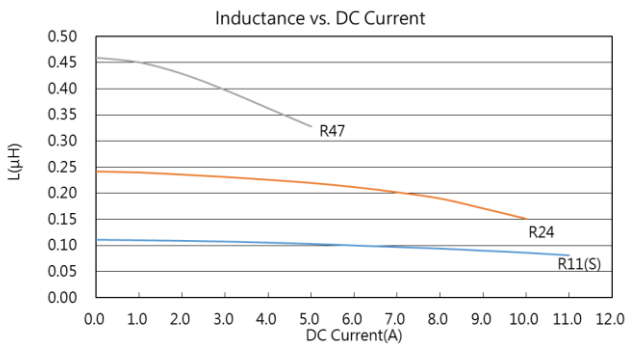
Part Number	Inductance ( $\mu\text{H}$ )	Tolerance ( $\pm\%$ )	Test Frequency (MHz)	RDC(m $\Omega$ ) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)
BEBE00201212R11MMS	0.11	20	1MHz,1V	5.8(5.0)	11.0(11.5)	9.5(10.0)
BEBE00201212R24MMA	0.24	20	1MHz,1V	19.0(17.0)	8.5(9.0)	7.0(7.5)
BEBE00201212R47MMA	0.47	20	1MHz,1V	23.5(22.0)	5.0(5.5)	4.5(5.0)

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Part Number	Inductance (μH)	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)

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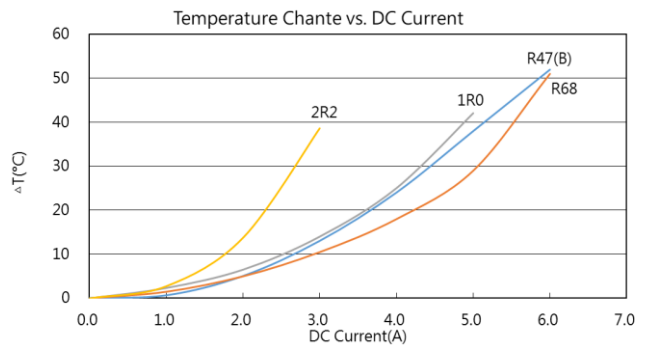
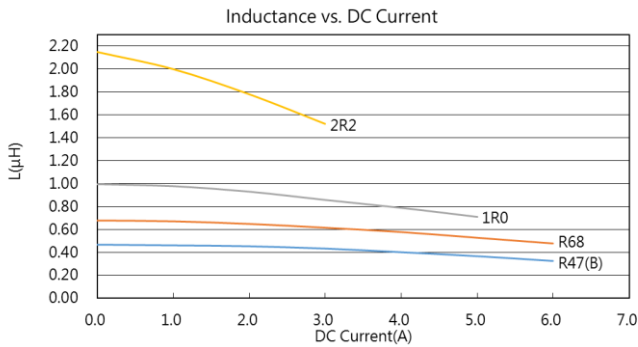
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# Molding Power Inductors – BEBE Series

## Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max.(Typ.)	Isat(A) Max.(Typ.)	Irms(A) Max.(Typ.)
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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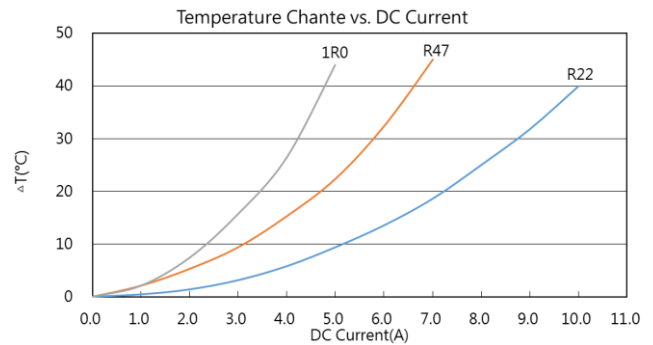
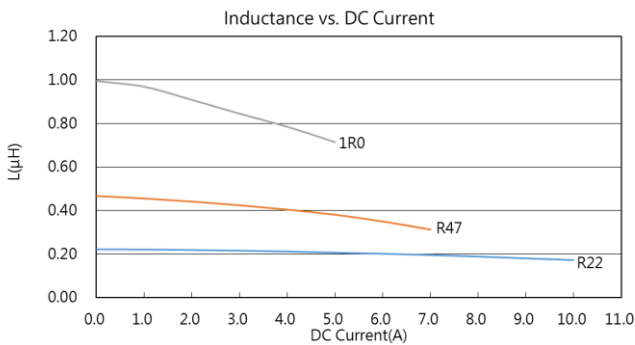
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DCR : CHEN HWA502BC/HP4338B (or equivalent)

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Part Number	Inductance (μH)	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)

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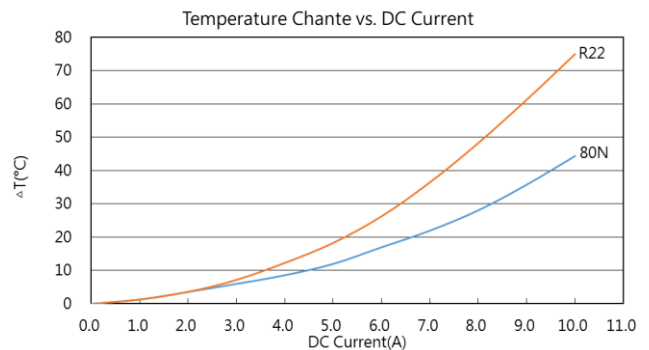
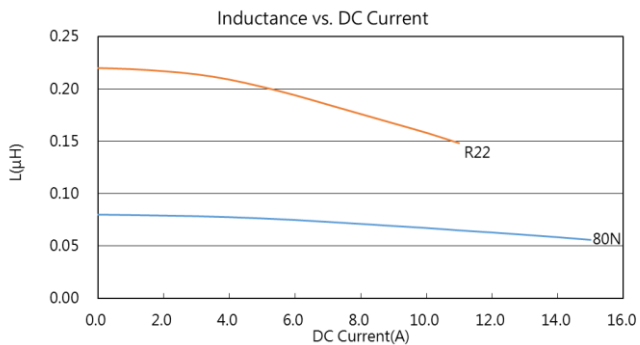
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BEBE00322510R22MMA	0.22	20	1MHz,1V	12.5(10.5)	10.0(11.0)	7.0(7.5)
BEBE00322510R47MMA	0.47	20	1MHz,1V	16.0(14.0)	10.0(10.5)	9.5(10.0)

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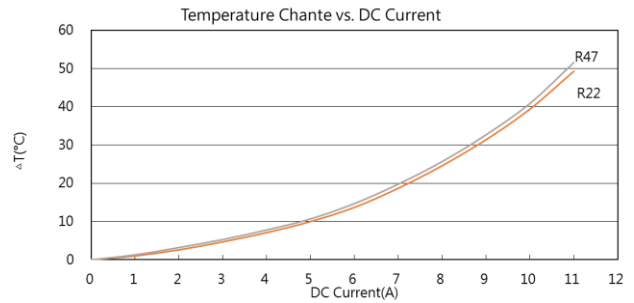
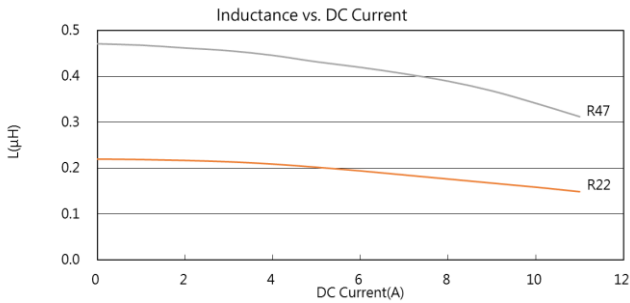
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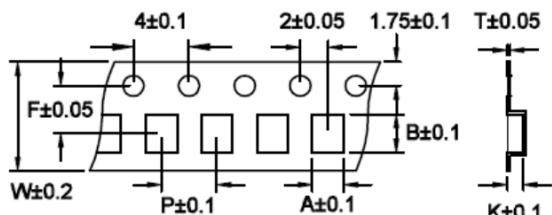
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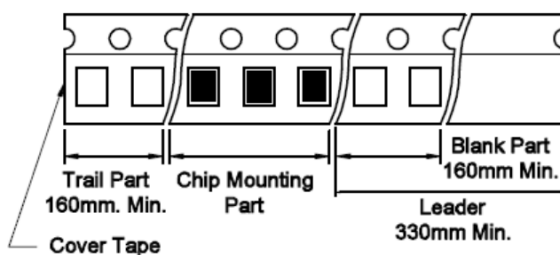
## Packaging Specifications

### Tape Dimensions

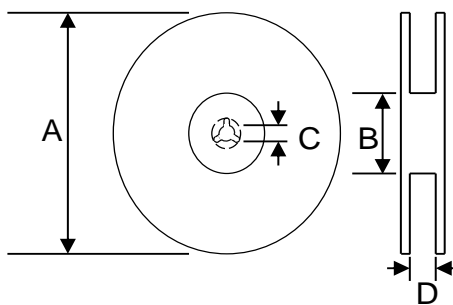


### Tape Material

**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

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)