

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.)

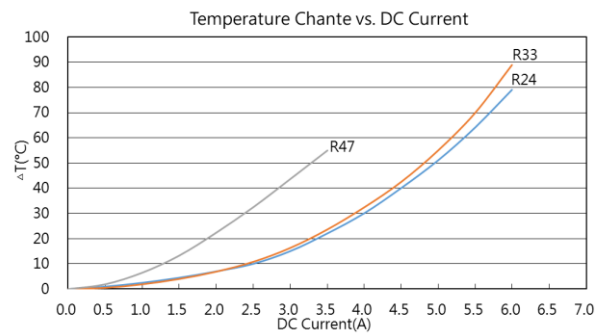
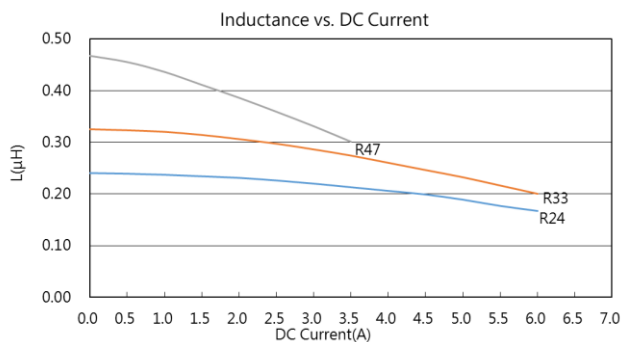
Test Instruments :

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)



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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)

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.)

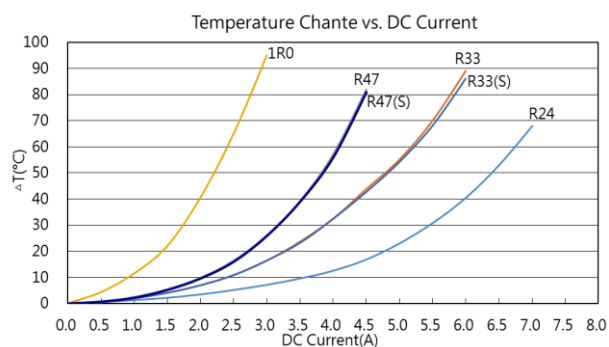
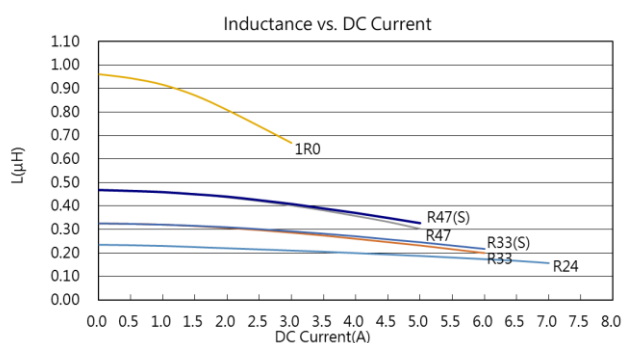
Test Instruments :

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DCR : CHEN HWA502BC/HP4338B (or equivalent)

Isat : Agilent E4980A+HP42841A (or equivalent)

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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.)

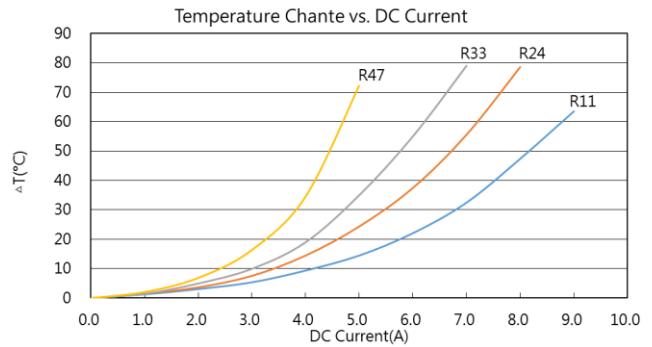
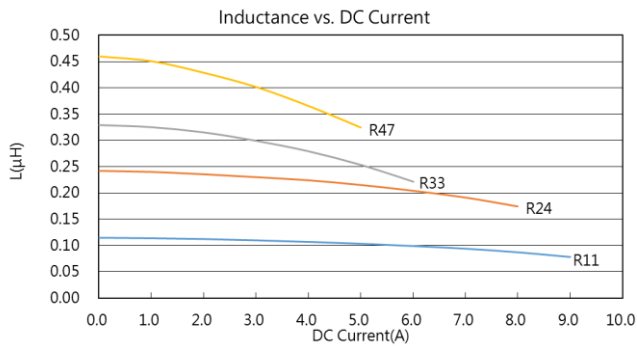
Test Instruments :

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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%

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

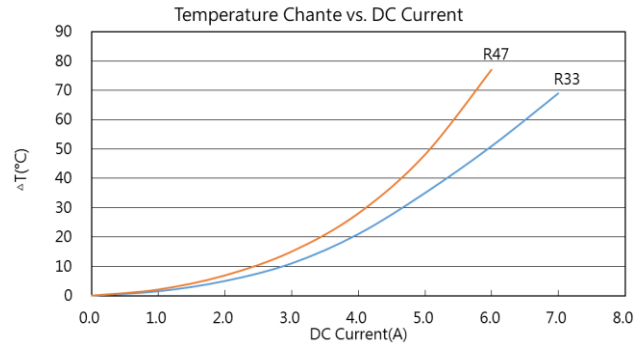
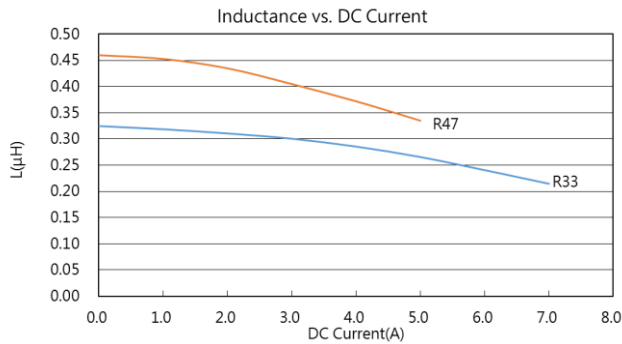
Test Instruments :

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

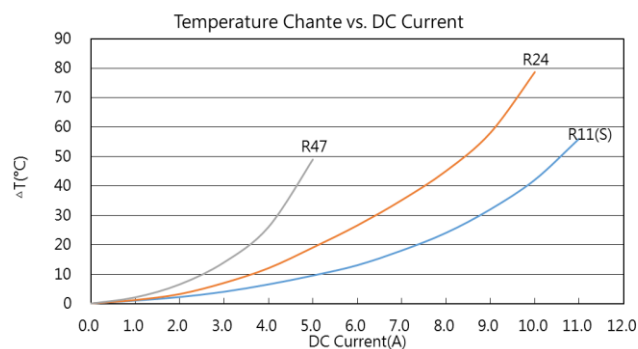
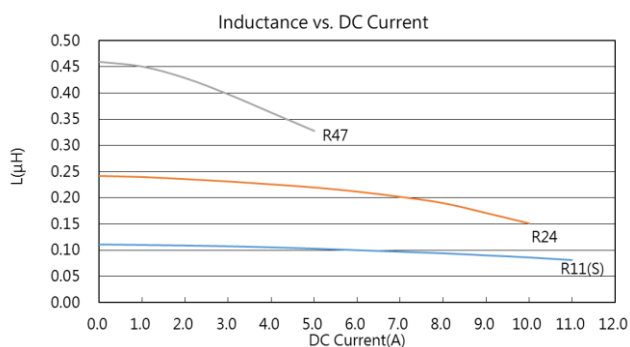
Test Instruments :

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Isat : Agilent E4980A+HP42841A (or equivalent)

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



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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)

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

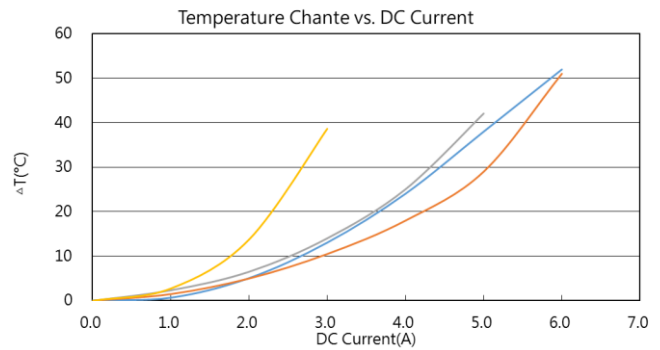
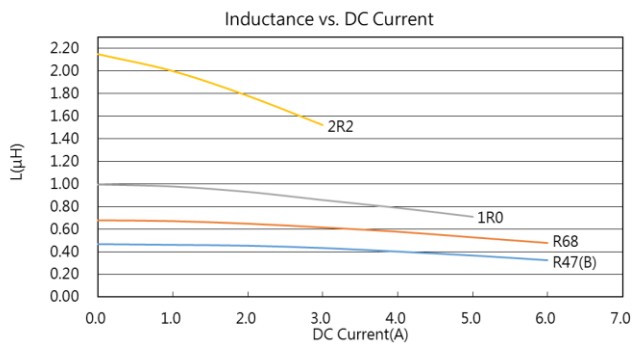
Test Instruments :

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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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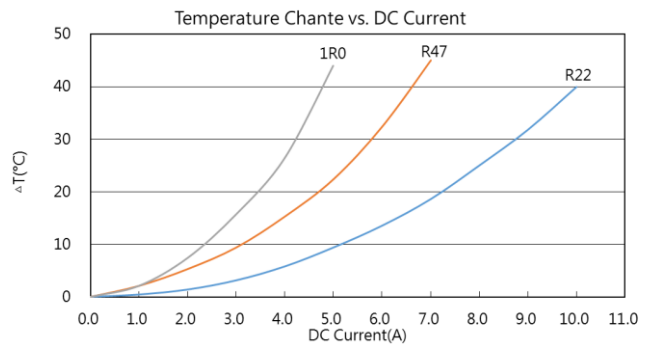
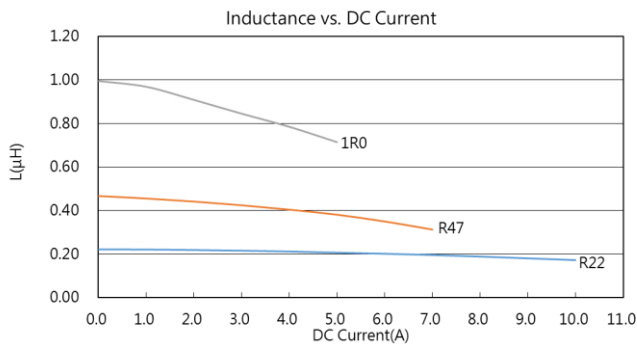
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BEBE0032250880NMMA	0.08	20	1MHz,1V	4.2(3.9)	14.5(15.5)	8.0(9.0)
BEBE00322510R22MMA	0.22	20	1MHz,1V	12.5(10.5)	10.0(11.0)	7.0(7.5)

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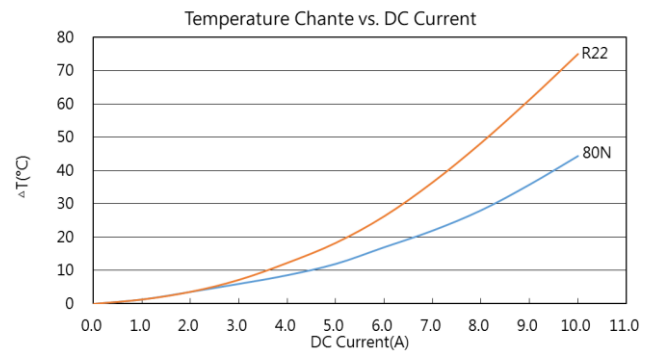
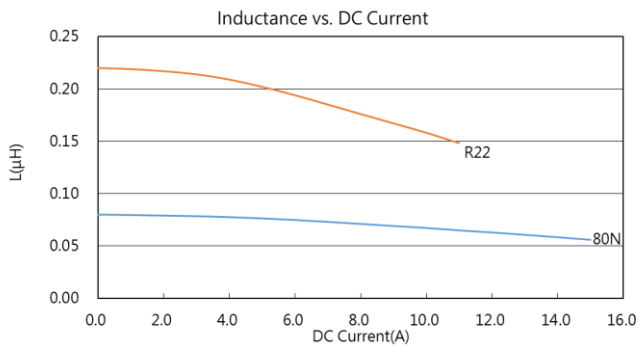
Test Instruments :

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DCR : CHEN HWA502BC/HP4338B (or equivalent)

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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%

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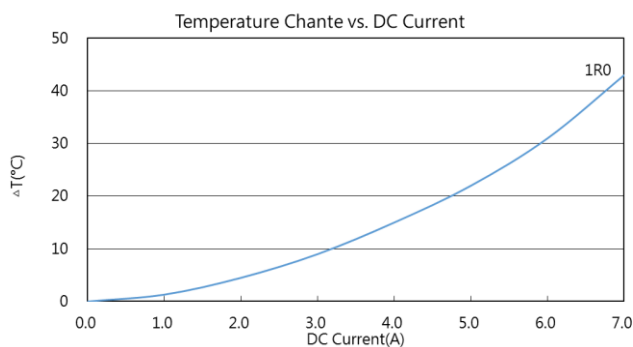
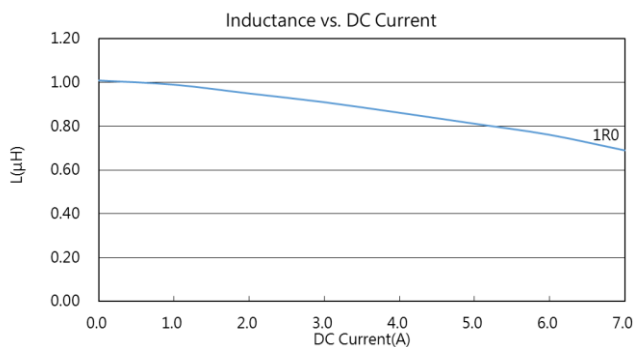
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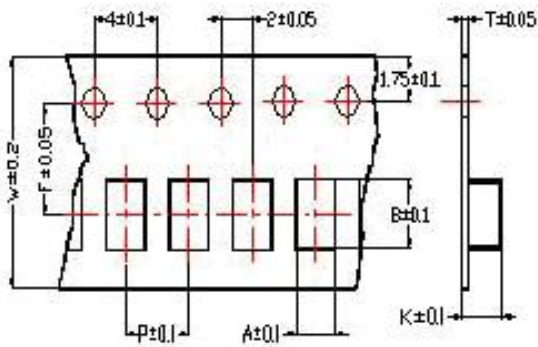
Isat : Agilent E4980A+HP42841A (or equivalent)

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

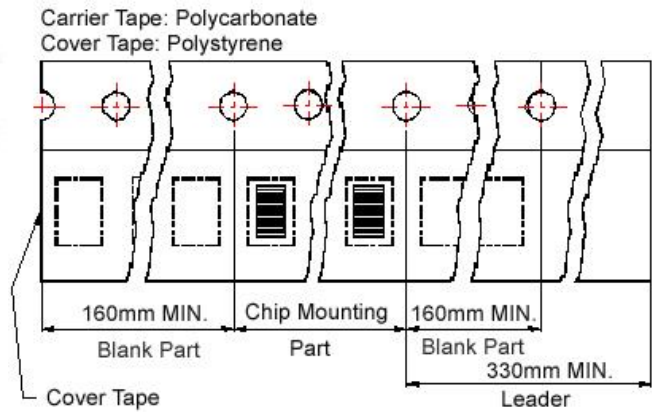


Packaging Specifications

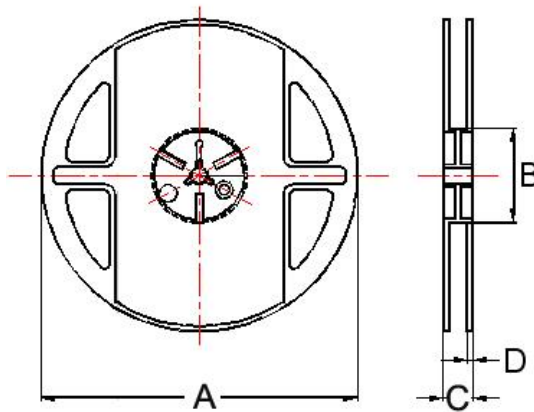
Tape Dimensions



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