

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 RDC 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.

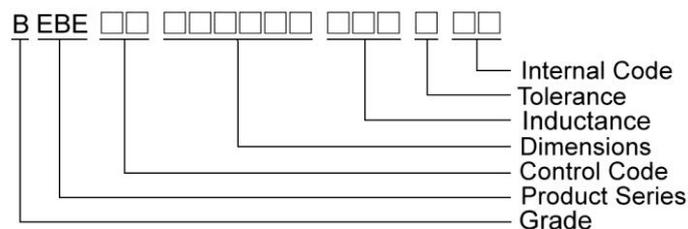
Features

- RoHS, Halogen Free and REACH Compliance
- High performance (Isat) realized by metal dust core.
- Low coil resistance with large currents.
- Miniaturized size: 1.4mm x 1.2mm x 0.8mm

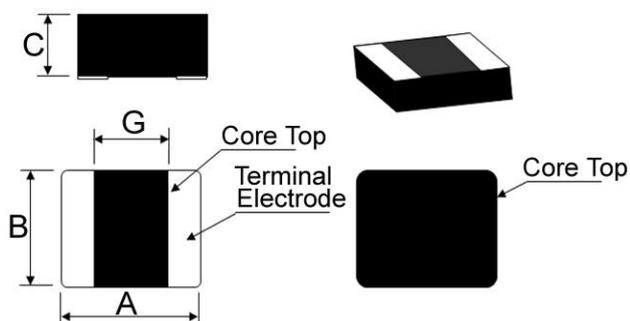
Applications

- Smartphones, wearable devices

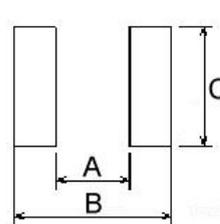
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	G
BEBE00141208	1.4±0.2	1.2±0.2	0.8Max	0.53

Dimensions in mm

TYPE	A	B	C
BEBE00141208	0.5	1.6	1.4

Molding Power Inductors – BEBE Series

Electrical Characteristics

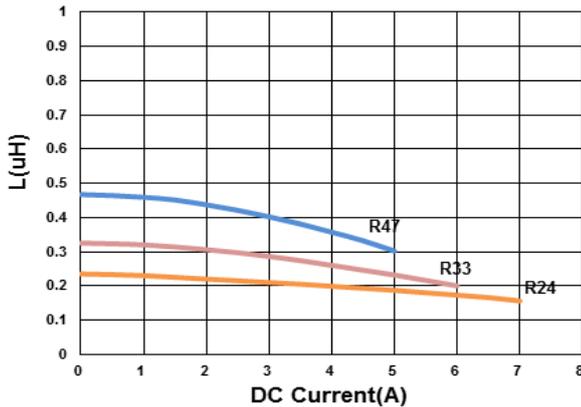
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00141208R24MMA	0.24	20	1	20(18)	6.0(6.5)	5.3(5.8)
BEBE00141208R33MMA	0.33	20	1	25(23)	4.5(5.0)	3.6(4.0)
BEBE00141208R47MMA	0.47	20	1	30(28)	4.0(4.5)	3.0(3.3)

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

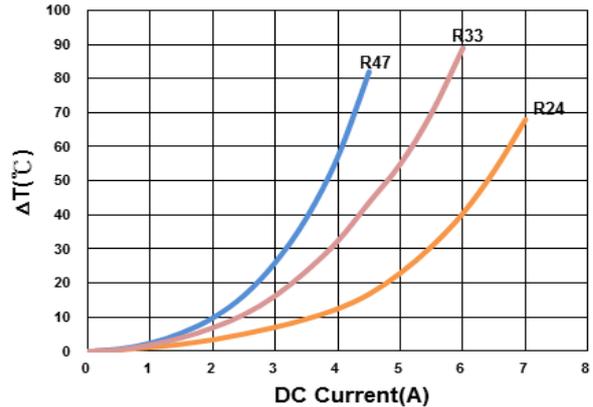
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC
- Measure Equipment :
 L : Agilent E4991/HP4286A+16197A (or equivalent), 1MHz 1V
 RDC : CHEN HWA502BC/HP4338B (or equivalent)
 Isat : Agilent E4980A+HP42841A (or equivalent)
 Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments : E4991A Impedance / Material Analyzer

Inductance v.s DC Current

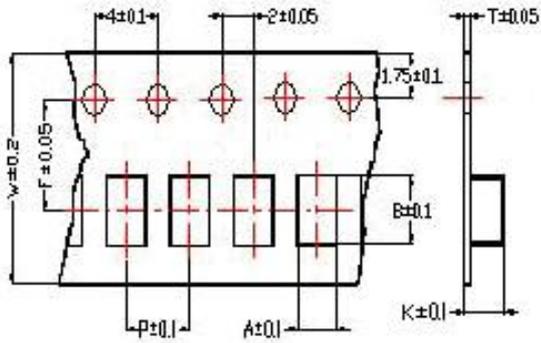


Temperature Change v.s DC Current

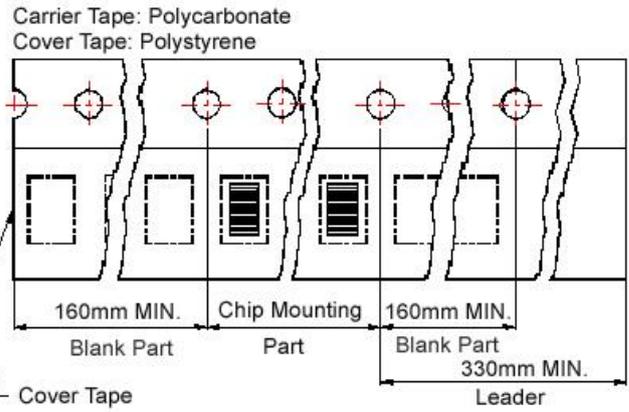


Packaging Specifications

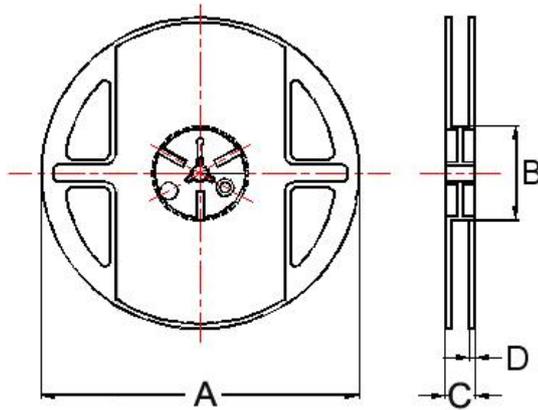
Tape Dimensions



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	
BEBE00141208	1.45	1.65	0.22	8	4	3.5	1.04	178	60	12	1.5	3000