BDBB Series



The BDBB Series is designed specifically to enhance both PFM and PWM application performance. Q (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.

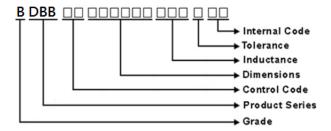
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*0.8mm

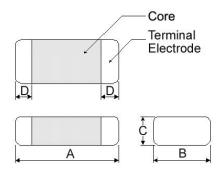
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

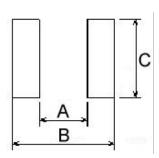
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm				Dimensions in mm					
TYPE	Α	В	С	D	TYPE	Α	В	С	
BDBB00201608	2.0±0.2	1.60±0.2	0.8Max	0.5±0.3	BDBB00201608	0.7	2.3	1.8	
BDBB00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3	BDBB00201610	0.7	2.3	1.8	
BDBB00201612	2.0±0.2	1.60±0.2	1.2Max	0.5±0.3	BDBB00201612	0.7	2.3	1.8	
BDBB00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3	BDBB00252012	1.2	2.8	2.3	





Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB002016081R0MC1	1.0	20	2	48(41)	3.8(4.1)	3.7(3.8)

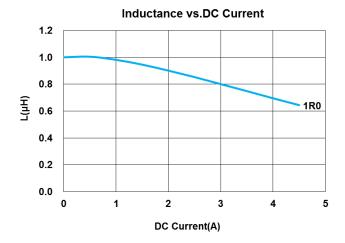
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

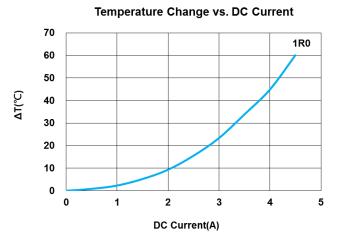
- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

Test Instruments:

L: WK 6500B/HP4285A (or equivalent), 2MHz 1V

RDC: Chen Hwa 502BC/HP4338B (or equivalent)
Isat: Agilent E4980A+HP42841A (or equivalent)









Electrical Characteristics

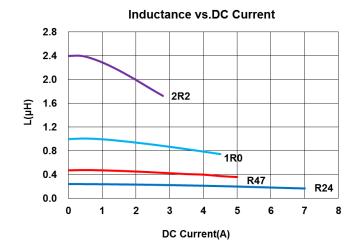
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00201610R24MC1	0.24	20	2	20(15.5)	6.3(7.1)	4.7(5.5)
BDBB00201610R47MC1	0.47	20	2	26(22)	4.8(5.0)	4.0(4.3)
BDBB002016101R0MC1	1.00	20	2	43(38)	4.2(4.5)	3.6(3.9)
BDBB002016102R2MC1	2.20	20	2	112(106)	2.5(2.7)	2.3(2.5)

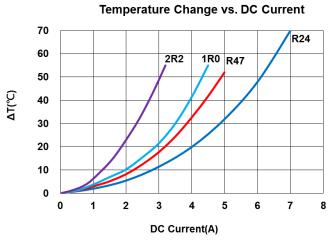
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

Test Instruments:

L: WK 6500B/HP4285A (or equivalent), 2MHz 1V RDC: Chen Hwa 502BC/HP4338B (or equivalent) Isat: Agilent E4980A+HP42841A (or equivalent)









Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00201612R47MC1	0.47	20	2	22(18)	5.3(5.5)	4.9(5.1)

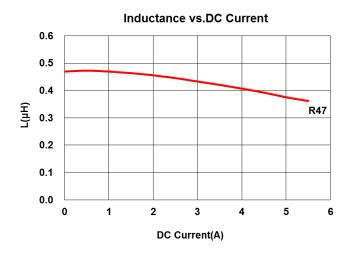
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

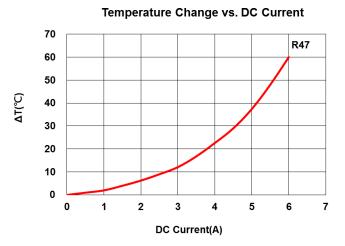
- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

Test Instruments:

L: WK 6500B/HP4285A (or equivalent), 2MHz 1V

RDC: Chen Hwa 502BC/HP4338B (or equivalent)
Isat: Agilent E4980A+HP42841A (or equivalent)









Electrical Characteristics

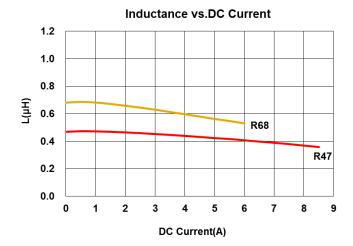
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00252012R47MC1	0.47	20	2	21(16)	8.0(8.2)	4.6(4.8)
BDBB00252012R68MC1	0.68	20	2	31(25)	5.4(6.0)	3.9(4.6)

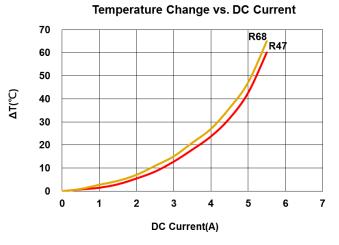
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

Test Instruments:

L: WK 6500B/HP4285A (or equivalent), 2MHz 1V RDC: Chen Hwa 502BC/HP4338B (or equivalent) Isat: Agilent E4980A+HP42841A (or equivalent)









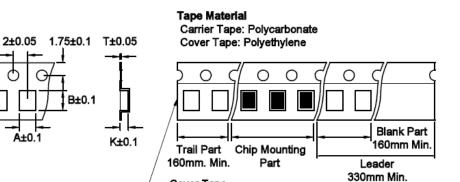
Packaging Specifications

F±0.05

W±0.2

Tape Dimensions

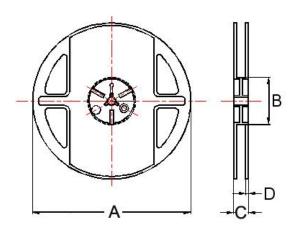
4±0.1



Tape Material

Reel Dimensions

Cover Tape



Dimensions in mm

			Таре	Dimens	ions				Quantity			
TYPE	Α	В	т	w	Р	F	K	Α	В	С	D	PCS / REEL
BDBB00201608	1.80	2.35	0.23	8	4	3.5	0.85	178	60	12	1.5	3000
BDBB00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBB00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBB00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000



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)