

## BDBL Series



The BDBL 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.

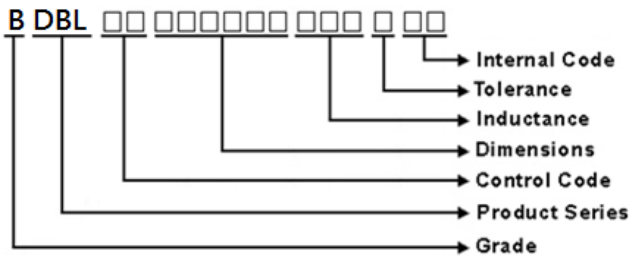
### Features

- 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

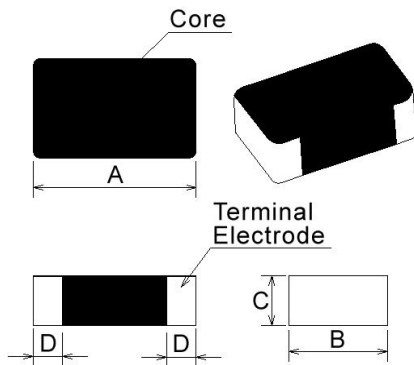
### Applications

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

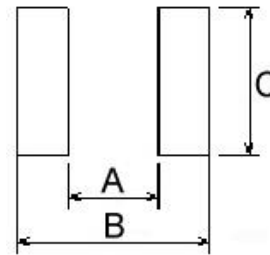
### Product Identification



### Shape and Dimensions



### Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDBL00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDBL00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDBL00201610	0.7	2.3	1.8
BDBL00252012	1.2	2.8	2.3

# Molding Power Inductors – BDBL Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBL00201610R24MC1	0.24	20	2	20(15.5)	6.3(7.1)	4.7(5.5)
BDBL00201610R47MC1	0.47	20	2	26(22)	4.8(5.0)	4.0(4.3)
BDBL002016101R0MC1	1.00	20	2	43(38)	4.2(4.5)	3.6(3.9)
BDBL002016102R2MC1	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 :

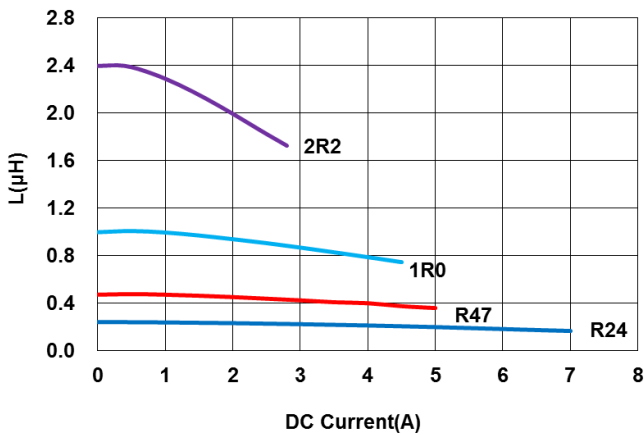
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

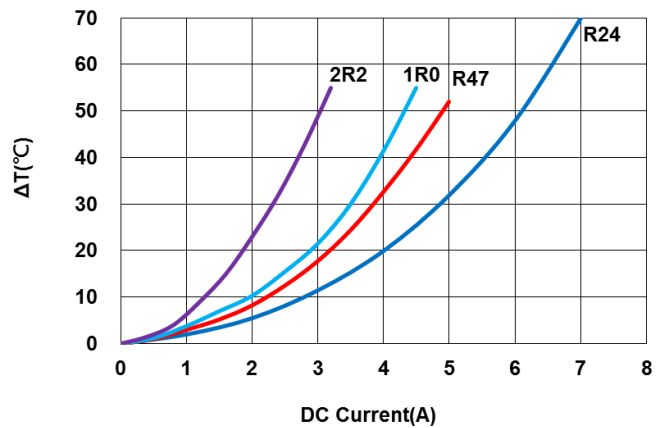
Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)

**Inductance vs.DC Current**



**Temperature Change vs. DC Current**



# Molding Power Inductors – BDBL Series

## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBL00252012R47MC1	0.47	20	2	21(16)	8.0(8.2)	4.6(4.8)
BDBL00252012R68MC1	0.68	20	2	31(25)	5.4(6.0)	3.9(4.6)

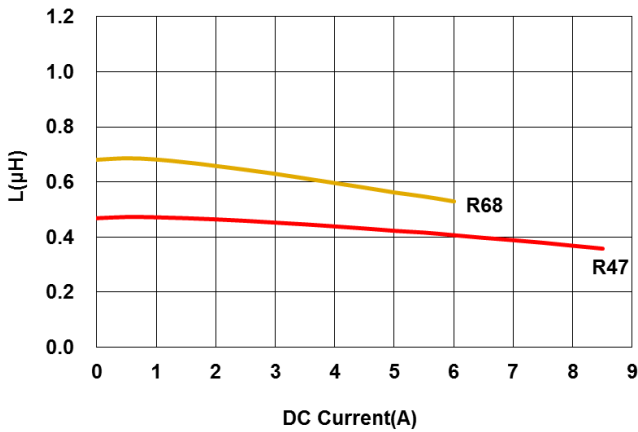
**Note:** When ordering, please specify tolerance code. Tolerance: M=±20%

- 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

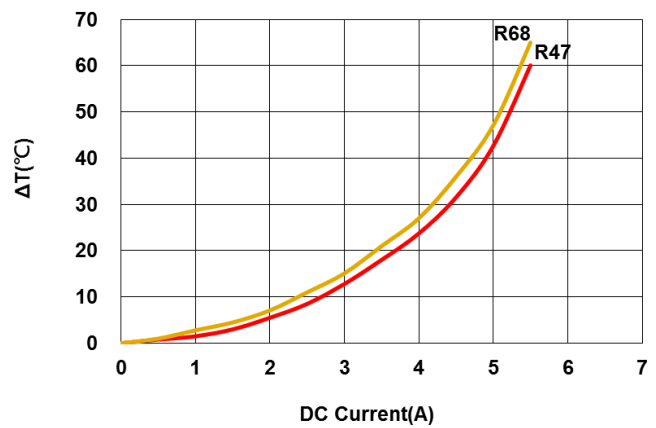
## Test Instruments :

- L: WK 6500B/HP4285A (or equivalent), 2MHz
- RDC: Chen Hwa 502BC/HP4338B (or equivalent)
- Isat: Agilent E4980A+HP42841A (or equivalent)
- Irms: Agilent 6641 system DC power supply (or equivalent)

**Inductance vs.DC Current**



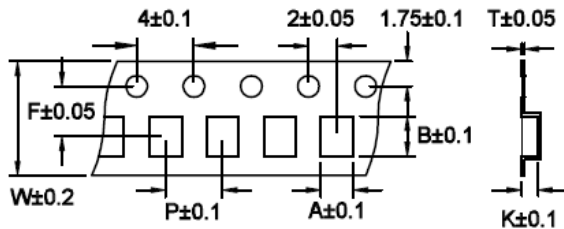
**Temperature Change vs. DC Current**



# Molding Power Inductors – BDBL Series

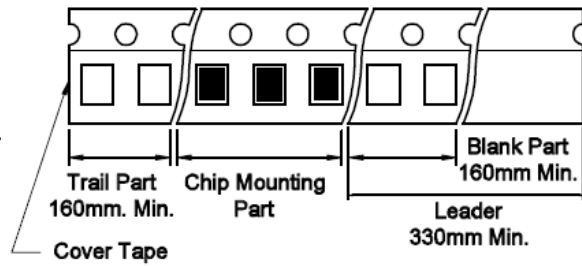
## Packaging Specifications

Tape Dimensions

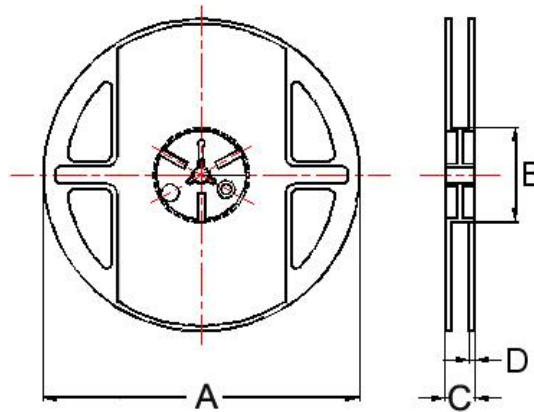


Tape Material

**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	
BDBL00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBL00252012	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\(奇力新\)](#)