

## BDCC Series



The BDCC series is the special design to enhance the performance of PFM and PWM applications. It provides lower Rac value at light load and lower Rdc value at heavy load to improve efficiency performance. Furthermore, it provides excellent saturation current to reduce the ripple current and enhance efficiency.

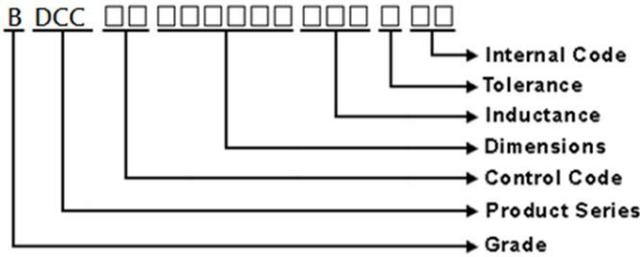
### Features

- Chip Size: 2012
- Low profile: 0.8mm
- Inductance: 0.24uH ~0.47uH
- Low Rdc for better power efficiency management
- High saturation current
- L Type Termination

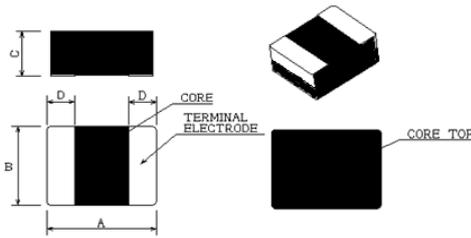
### Applications

- DC-DC buck converter for power management
- 5G, Cell phone

### Product Identification



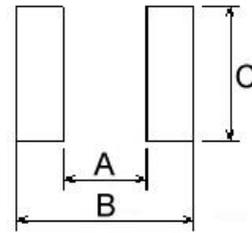
### Chip Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
BDCC00201208	2.0±0.2	1.25±0.2	0.8 Max.	0.5 Typ.

### Recommended Pad Pattern



Dimensions in mm

TYPE	A	B	C
BDCC00201208	0.8	2.4	1.45

# Molding Power Inductors – BDCC Series

## Electrical Characteristics

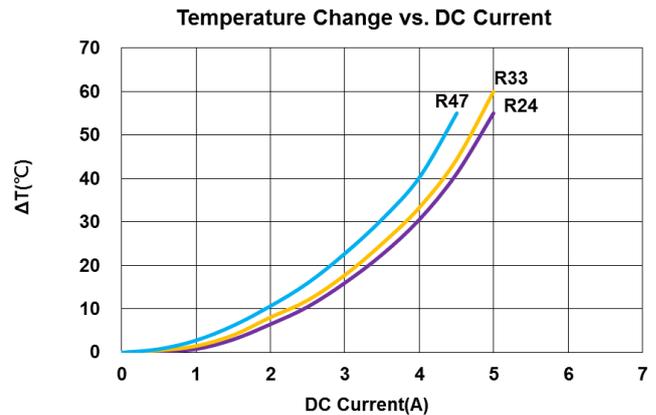
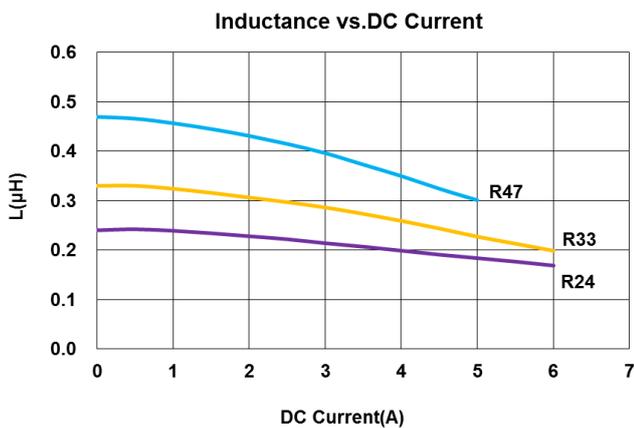
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max(Typ)	Isat (A) Max(Typ)	Irms (A) Max(Typ)
BDCC00201208R24MWA	0.24	20	2	22(18)	5.5(6.0)	4.2(4.3)
BDCC00201208R33MWA	0.33	20	2	24(20)	4.8(5.8)	4.0(4.2)
BDCC00201208R47MWA	0.47	20	2	29(25)	4.3(4.8)	3.7(3.9)

**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 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 :

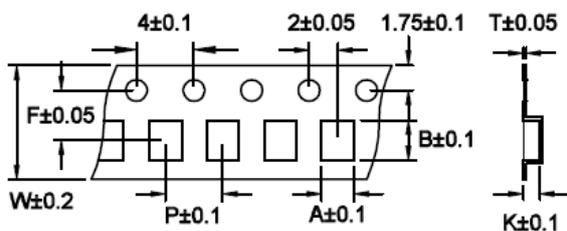
- L: WK 6500B/HP4285A (or equivalent), 2MHz
- RDC: Chen Hwa 502BC/HP4338B (or equivalent)
- Isat: Agilent E4980A+HP42841A (or equivalent)
- Irms: Agilent 6641 system DC power supply (or equivalent)



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

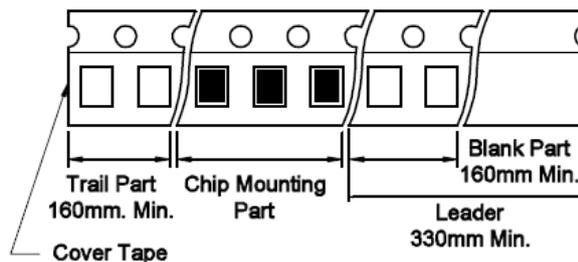
## Packaging Specifications

Tape Dimensions

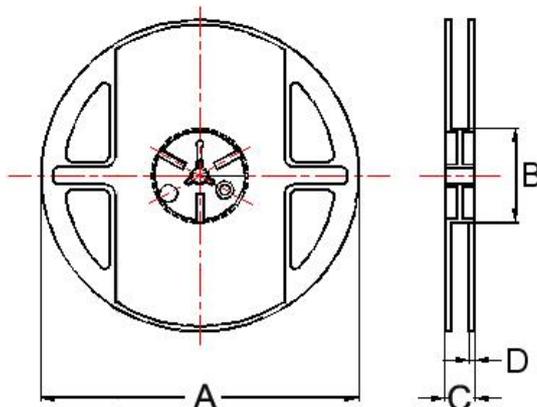


Tape Material

**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	
BDCC00201208	1.48	2.27	0.22	8	4	3.5	1.10	178	60	12	1.5	3000