## **Molding Power Inductors**

**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: 2012Low profile: 0.8mm

• Inductance: 0.24uH ~0.47uH

Low Rdc for better power efficiency management

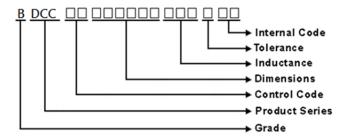
High saturation current

L Type Termination

#### **Applications**

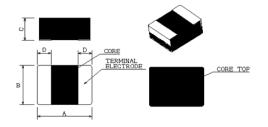
- DC-DC buck converter for power management
- 5G, Cell phone

#### **Product Identification**

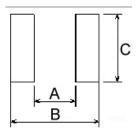


#### Product identification

#### **Chip Shape and Dimensions**



#### **Recommended Pad Pattern**



#### Dimensions in mm

TYPE	Α	В	С	D
BDCC00201208	2.0±0.2	1.25±0.2	0.8 Max.	0.5 Typ.

#### Dimensions in mm

TYPE	Α	В	С
BDCC00201208	0.8	2.4	1.45

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#### **Electrical Characteristics**

Part Number	art Number (uH) (±%)		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

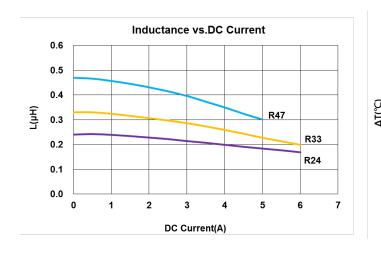
#### **Test Instruments:**

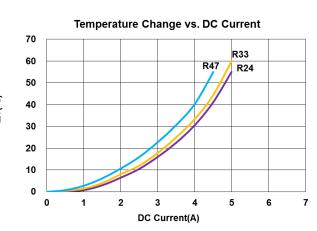
L: WK 6500B/HP4285A (or equivalent), 2MHz 1V

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

Isat: Agilent E4980A+HP42841A (or equivalent)

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





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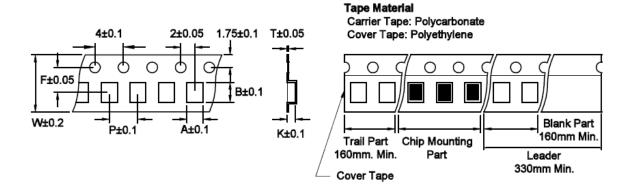
**BDCC Series** 



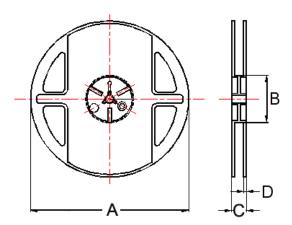
#### **Packaging Specifications**

#### **Tape Dimensions**

Tape Material



#### **Reel Dimensions**



#### Dimensions in mm

TYPE		Tape Dimensions					Reel Dimensions				Quantity	
IIFE	A B	Т	w	Р	F	K	Α	В	С	D	PCS / REEL	
BDCC00201208	1.48	2.27	0.22	8	4	3.5	1.10	178	60	12	1.5	3000

#### For More Information:

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Americas - prodinfo\_power\_americas@yageo.com | Europe - prodinfo\_power\_emea@yageo.com | Asia - prodinfo\_power\_asia@yageo.com

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**Authorized Distributor** 

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BDCC00201208R33MWA