# Molding Power Inductors OBDCC Series

**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.

• DC-DC buck converter for power management

Applications

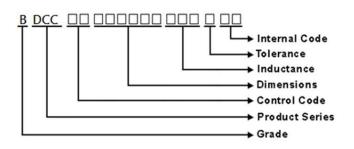
• 5G, Cell phone



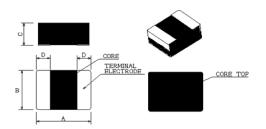
### Features

- 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

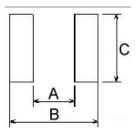
**Product Identification** 



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



### **Recommended Pad Pattern**



Dimensions in mm					Dimensions in mm					
TYPE	Α	A B C		D	TYPE	Α	В	С		
BDCC00201208	2.0±0.2	1.25±0.2	0.8 Max.	0.5 Тур.	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)	lsat (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)

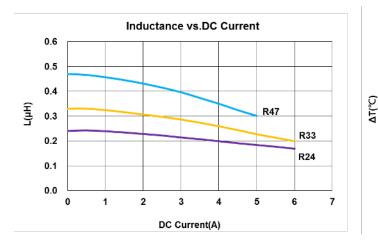
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

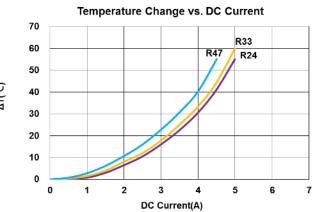
- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute 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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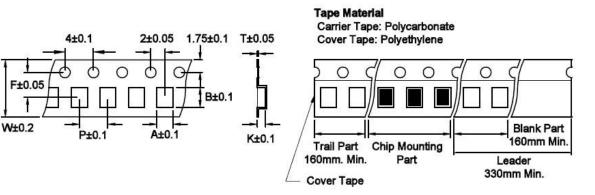
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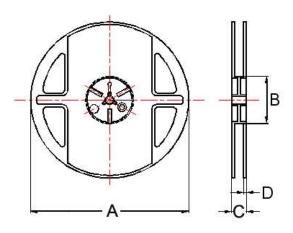
# **Molding Power Inductors – BDCC Series**

### **Packaging Specifications**

**Tape Dimensions** 



#### **Reel Dimensions**



#### **Dimensions in mm**

ТҮРЕ	Tape Dimensions							Reel Dimensions				Quantity
	Α	в	т	w	Р	F	к	А	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:

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

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**Tape Material**