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

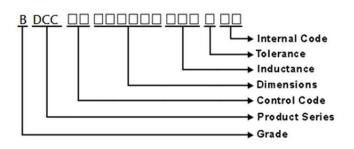
• 5G, Cell phone



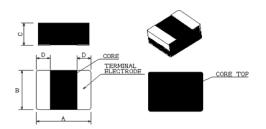
Features

- 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

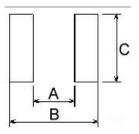
Product Identification



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		

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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)

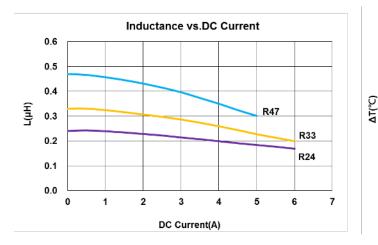
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

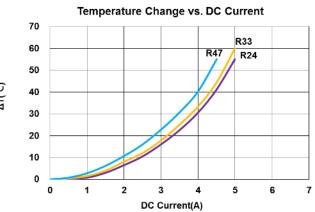
- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute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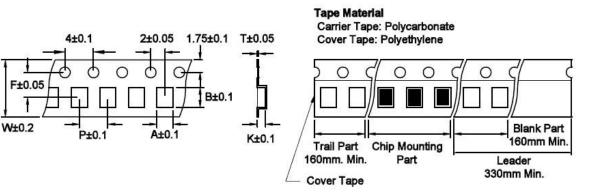
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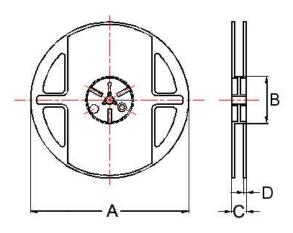
Molding Power Inductors – BDCC Series

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