BDCC Series



Features

Chip Size: 2012Low profile: 0.8mm

• Inductance: 0.24uH ~0.47uH

• Low Rdc for better power efficiency management

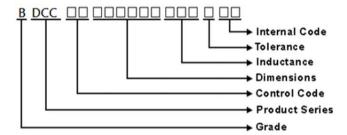
High saturation currentL Type Termination

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.

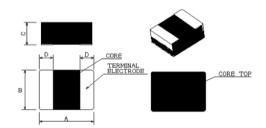
Applications

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

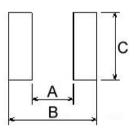
Product Identification



Chip Shape and Dimensions



Recommended Pad Pattern



Dimensions	in	mm

TYPE	YPE A		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		





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

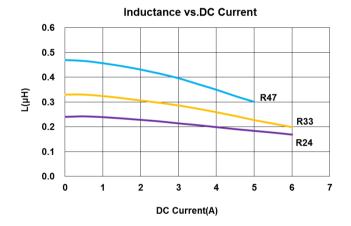
Test Instruments:

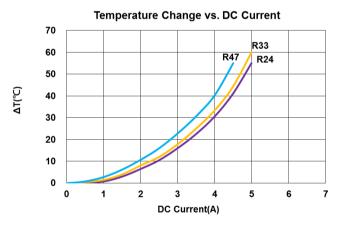
L: WK 6500B/HP4285A (or equivalent), 2MHz

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

Isat: Agilent E4980A+HP42841A (or equivalent)

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









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Packaging Specifications

F±0.05

W±0.2

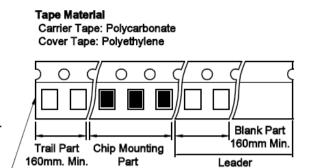
Tape Dimensions

2±0.05 1.75±0.1 T±0.05

B±0.1

K±0.1

4±0.1



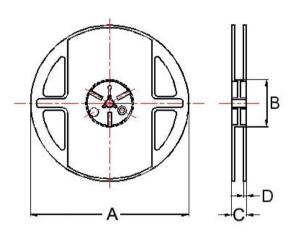
Leader 330mm Min.

Part

Tape Material

Reel Dimensions

Cover Tape



Dimensions in mm

TVDE	Tape Dimensions						Reel Dimensions				Quantity	
TYPE	Α	В	т	w	P	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





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

BDCC00201208R47MWA