Molding Power Inductors BDQQ Series

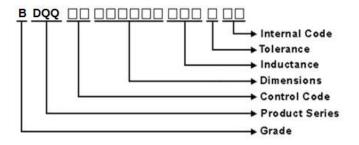




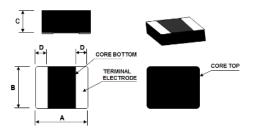
Features

- Chip Size: 1412 and 2012
- Low profile: 0.65mm and 0.8mm
- Inductance: 0.33uH, 0.47uH, and 1.0uH
- Low Rdc for better power efficiency management •
- High saturation current
- Special patented design for bottom termination •

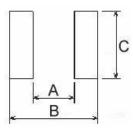
Product Identification



Chip Shape and Dimensions



Recommended Pad Pattern



The BDQQ 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

Dimensions in mm					Dimensions in mm				
TYPE	Α	В	С	D	TYPE	Α	В	С	
BDQQ001412FE	1.4±0.2	1.2±0.2	0.65 Max.	0.5 Тур.	BDQQ001412FE	0.5	1.5	1.3	
BDQQ00141208	1.4±0.2	1.2±0.2	0.80 Max.	0.5 Тур.	BDQQ00141208	0.5	1.5	1.3	
BDQQ002012FE	2.0±0.2	1.25±0.2	0.65 Max.	0.5 Тур.	BDQQ002012FE	0.7	2.2	1.45	
BDQQ00201208	2.0±0.2	1.25±0.2	0.80 Max.	0.5 Тур.	BDQQ00201208	0.7	2.2	1.45	

PulseElectronics.com

Molding Power Inductors BDQQ Series MelfigerBovernHeductors - BBQQ Series

Pulse

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	(mΩ) RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
BDQQ001412FER11NCA	0.11	30	2	20	6.8	4.5
BDQQ001412FER24MCA	0.24	20	2	27	5.5	4.0
BDQQ001412FER33MCA	0.33	20	2	32	5.0	3.0
BDQQ001412FER47MCA	0.47	20	2	42	3.0	2.6
BDQQ001412FE1R0MCA	1.00	20	2	88	2.0	1.5
BDQQ00141208R33MCA	0.33	20	2	25	5.0	4.0
BDQQ00141208R47MCA	0.47	20	2	29	4.5	3.3
BDQQ002012FER47MCA	0.47	20	2	34	4.5	3.4
BDQQ00201208R33MCA	0.33	20	2	23	5.3	4.5
BDQQ00201208R47MCB	0.47	20	2	27	4.8	3.9

Note: Please be noted that the tolerance of 0.11uH is $\pm 30\%$ and others are $\pm 20\%$

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
- Measure Equipment:

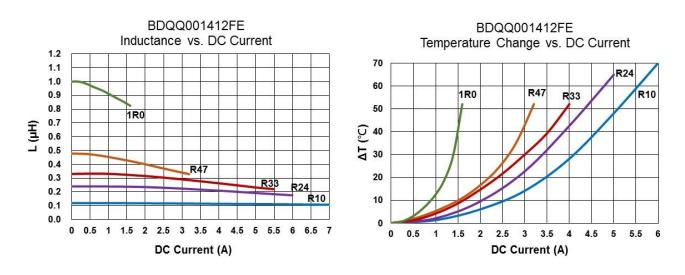
L: WK 6500B/HP4285A (or equivalent), 2MHz 1V

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

Isat: Agilent E4980A+HP42841A (or equivalent)

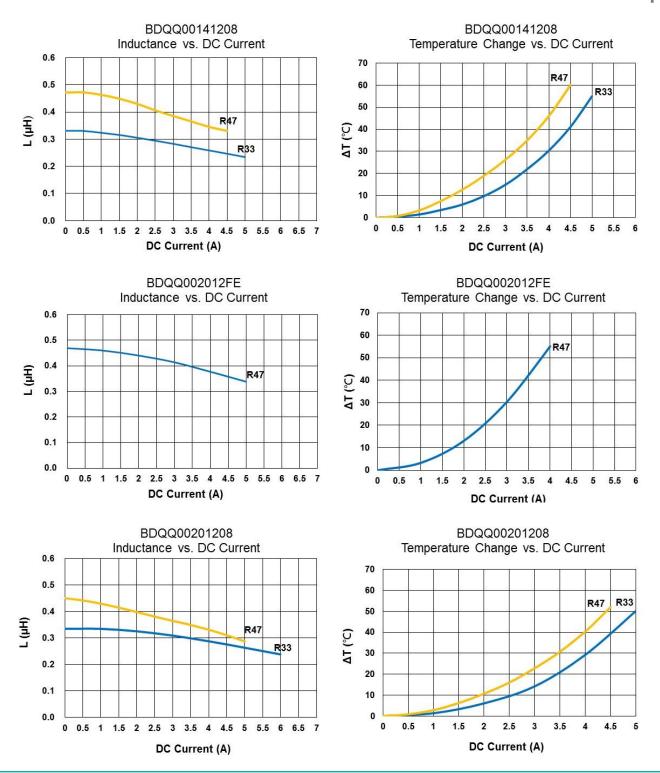
Irms: Agilent 6641 system DC power supply (or equivalent)

Test Instruments : E4991A Impedance / Material Analyzer



Molding Power Inductors – BDQQ Series Molding Power Inductors BDQQ Series Molding Power Inductors – BDQQ Series





For More Information:

3

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2022. Pulse Electronics, Inc. All rights reserved.

PulseElectronics.com