BDAL Series



The BDAL Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

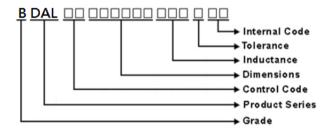
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*1.0mm

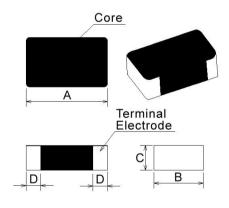
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

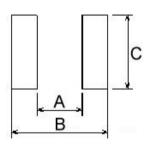
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

Dimensions in min				
TYPE	Α	В	С	D
BDAL00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDAL00252010	2.5±0.2	2.00±0.2	1.0Max	0.6±0.3
BDAL00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

DITICHSIONS IN MITH				
TYPE	Α	В	С	
BDAL00201610	0.7	2.3	1.8	
BDAL00252010	1.2	2.8	2.3	
BDAL00252012	1.2	2.8	2.3	



Molding Power Inductors – BDAL Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00201610R24MC1	0.24	20	2	27(21)	5.6(7.0)	4.6(5.3)
BDAL00201610R47MC1	0.47	20	2	34(28)	5.1(5.8)	4.5(5.0)
BDAL00201610R68MC1	0.68	20	2	43(38)	4.0(4.5)	3.1(3.7)
BDAL002016101R0MC1	1.0	20	2	62(53)	3.0(3.8)	2.7(3.4)
BDAL002016101R5MC1	1.5	20	2	85(75)	2.5(2.8)	2.3(2.7)
BDAL002016102R2MC1	2.2	20	2	135(112)	2.4(2.7)	1.8(2.2)

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

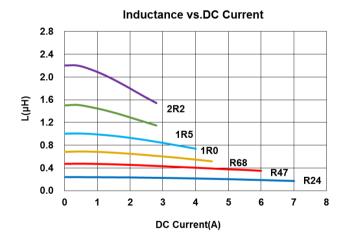
Test Instruments:

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

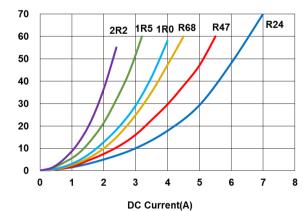
RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

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



Temperature Change vs. DC Current







Molding Power Inductors - BDAL Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00252010R24MC1	0.24	20	2	18(13)	8.0(9.5)	5.5(6.5)
BDAL00252010R33MC1	0.33	20	2	24(18)	6.5(8.0)	4.8(5.5)
BDAL00252010R47MC1	0.47	20	2	35(27)	5.0(6.2)	3.9(4.5)
BDAL00252010R68MC1	0.68	20	2	40(32)	4.5(5.6)	3.7(4.2)
BDAL002520101R0MC1	1.0	20	2	48(40)	4.1(4.6)	3.5(4.0)
BDAL002520101R5MC1	1.5	20	2	75(68)	3.1(3.8)	2.4(2.8)
BDAL002520102R2MC1	2.2	20	2	97(87)	2.5(3.0)	2.2(2.5)

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

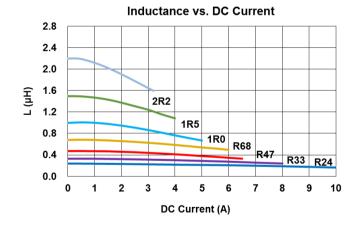
- Operating temperature range: -40°C~125°C (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40°C temperature rise from 25°C ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

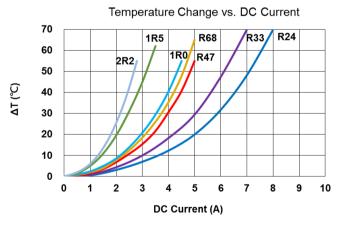
Test Instruments:

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)









Molding Power Inductors - BDAL Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(m Ω) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00252012R24MC1	0.24	20	2	15(11)	9.0(10.5)	6.2(7.3)
BDAL00252012R33MC1	0.33	20	2	18(15)	8.5(10.0)	5.8(6.4)
BDAL00252012R47MC1	0.47	20	2	33(28)	5.6(7.0)	3.8(4.5)
BDAL00252012R68MC1	0.68	20	2	36(30)	5.0(6.2)	3.7(4.4)
BDAL002520121R0MC1	1.0	20	2	42(35)	4.4(5.5)	3.6(4.1)
BDAL002520121R5MC1	1.5	20	2	59(52)	3.4(4.2)	2.7(3.1)
BDAL002520122R2MC1	2.2	20	2	86(80)	2.9(3.5)	2.5(2.9)

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

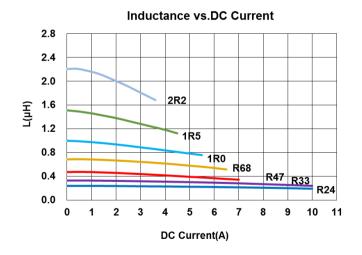
Test Instruments:

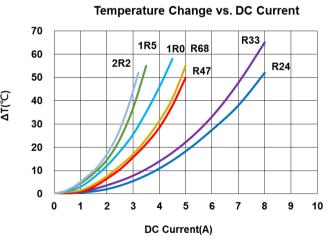
L: WK 6500B/HP4285A (or equivalent), 2MHz

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

Isat: Agilent E4980A+HP42841A (or equivalent)

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









Molding Power Inductors – BDAL Series

Packaging Specifications

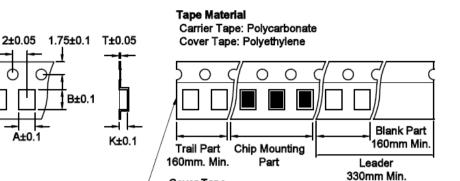
F±0.05

W±0.2

Tape Dimensions

4±0.1

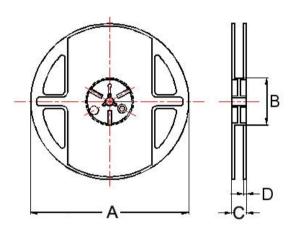
P±0.1



Tape Material

Reel Dimensions

Cover Tape



Dimensions in mm

TVDE			Таре	Dimens	ions			Reel Dimensions				Quantity
TYPE	Α	В	т	w	Р	F	K	Α	В	С	D	PCS / REEL
BDAL00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAL00252010	2.45	2.80	0.22	8	4	3.5	1.20	178	60	12	1.5	3000
BDAL00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000





单击下面可查看定价,库存,交付和生命周期等信息

>>CHILISIN(奇力新)