BDUE Series



Through material optimization, BDUE Series is with better electrical characteristics, such as: better efficiency performance, higher Q factor, and higher Irms. Compared to BDHE series, the RDC of BDUE series can also be reduced by 10% to 25%.

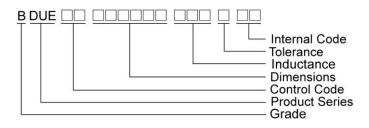
Features

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

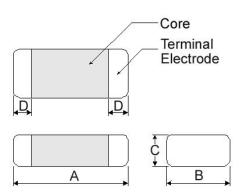
Applications

- Smartphones, tablets and wearable devices
- HDD, SSD and PC peripheral devices
- DSC, camcorders
- PND
- DC/DC converters

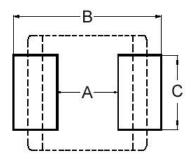
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm Dimensions in mm TYPE Α в С D TYPE Α в С BDUE00201208 2.0±0.2 1.25±0.2 BDUE00201208 0.8~1.2 2.3~2.9 1.0~1.45 0.8Max 0.5±0.3 BDUE00201610 2.0±0.2 1.60±0.2 1.0Max 0.5±0.3 BDUE00201610 0.7 2.3 1.8 BDUE00252010 BDUE00252010 2.5±0.3 2.00±0.3 1.0Max 0.6±0.3 1.2 2.8 2.3 BDUE00252012 2.5±0.3 2.00±0.3 1.2Max 0.6±0.3 BDUE00252012 1.2 2.8 2.3



Molding Power Inductors – BDUE Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	
BDUE00201208R47MQ1	0.47	20	2	43(37)	3.5(3.6)	3.0(3.2)	

Note: When ordering, please specify tolerance code. Tolerance: $M=\pm 20\%$

- Operating temperature range 40° C ~ 125° C(Including self temperature rise)
- Isat for Inductance drop 30% from its value without current
- $\bullet~$ Irms for a 40 $^\circ\!\mathrm{C}~$ temperature rise from 25 $^\circ\!\mathrm{C}~$ ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment :

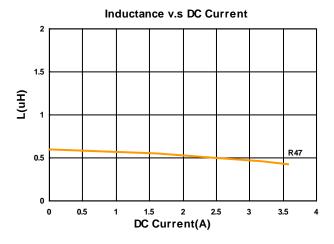
L : Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V

RDC : CHEN HWA502BC/HP4338B (or equivalent)

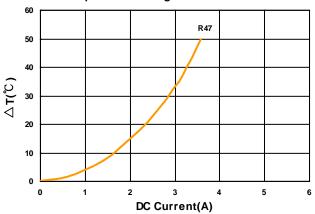
Isat : Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments : E4991A Impedance / Material Analyzer



Temperature Change v.s DC Current



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.



Electrical Characteristics

Part Number	Inductance (uH)			RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	
BDUE00201610R47MQ1	0.47	20	2	36(30)	3.5(3.9)	3.1(3.5)	
BDUE002016101R0MQ1	1.0	20	2	60(50)	3.0(3.2)	2.7(3.0)	

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$

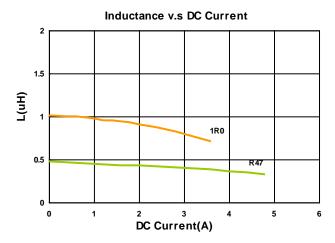
- Operating temperature range 40°C ~ 125°C(Including self temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40 $^\circ\!\mathrm{C}$ temperature rise from 25 $^\circ\!\mathrm{C}$ ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment :

L : Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V RDC : CHEN HWA502BC/HP4338B (or equivalent)

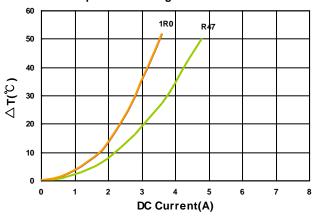
Isat : Agilent E4980A+HP42841A (or equivalent)

Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments : E4991A Impedance / Material Analyzer



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Frequency		Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	
BDUE00252010R47MQ1	0.47	20	2	27(21)	5.5(6.5)	4.2(4.5)	
BDUE002520101R0MQ1	1.0	20	2	46(39)	4.7(5.2)	4.0(4.2)	

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$

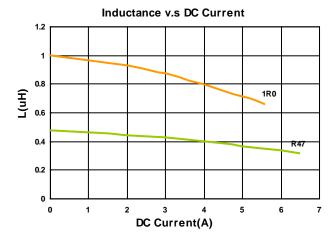
- Operating temperature range 40°C ~ 125°C(Including self temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40 $^\circ\!\mathrm{C}$ temperature rise from 25 $^\circ\!\mathrm{C}$ ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment :

L : Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V RDC : CHEN HWA502BC/HP4338B (or equivalent)

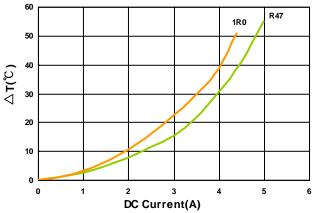
Isat : Agilent E4980A+HP42841A (or equivalent)

Irms : Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments: E4991A Impedance / Material Analyzer



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	
BDUE00252012R47MQ1	0.47	20	2	26.5(22.5)	5.7(7.0)	4.5(4.7)	
BDUE002520121R5MQ1	1.5	20	2	59(51)	3.4(3.7)	2.7(3.0)	

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$

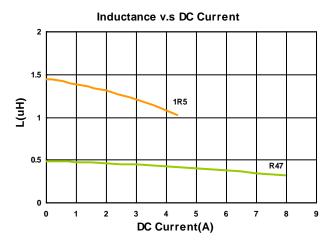
- Operating temperature range 40°C ~ 125°C(Including self temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40 $^\circ\!\mathrm{C}$ temperature rise from 25 $^\circ\!\mathrm{C}$ ambient with current
- Rated current : Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment :

L : Agilent E4991/HP4286A+16197A (or equivalent), 2MHz 0.2V RDC : CHEN HWA502BC/HP4338B (or equivalent)

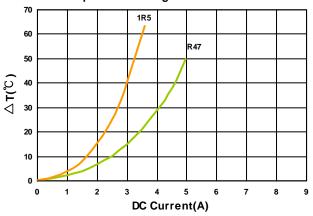
Isat : Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments : E4991A Impedance / Material Analyzer



Temperature Change v.s DC Current

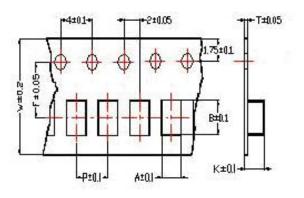


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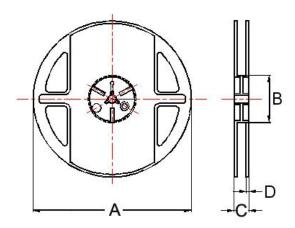


Packaging Specifications

Tape Dimensions



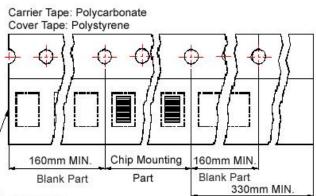
Reel Dimensions



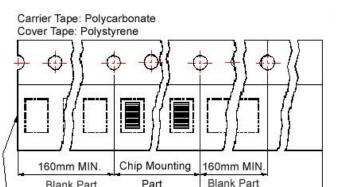
Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
TIPE	Α	в	т	w	Р	F	к	Α	в	С	D	PCS/REEL
BDUE00201208	1.45	2.25	0.22	8	4	3.5	1.04	178	60	12	1.5	3000
BDUE00201610	1.80	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDUE00252010	2.25	2.80	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDUE00252012	2.25	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

- Cover Tape



Tape Material



Leader

THS CHILISIN ELECTRONICS CORP.



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)