

## BWMR Series



BWMR series, metal alloy wire wound power inductor, its rated current could be increased up to 35% compare to ferrite base power inductor.

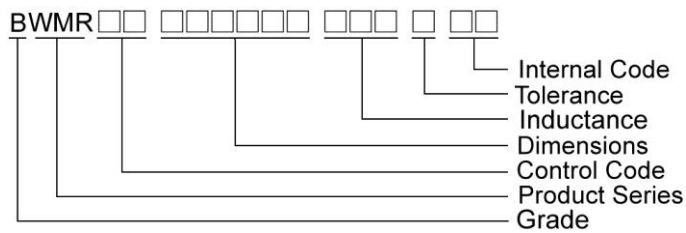
### Features

- RoHS, Halogen Free and REACH Compliance
- Constructure Low RDC and high rated current.
- Wide inductance range
- Shielded and miniature package design

### Applications

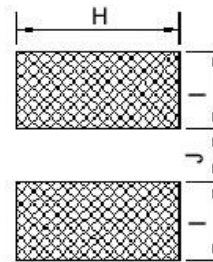
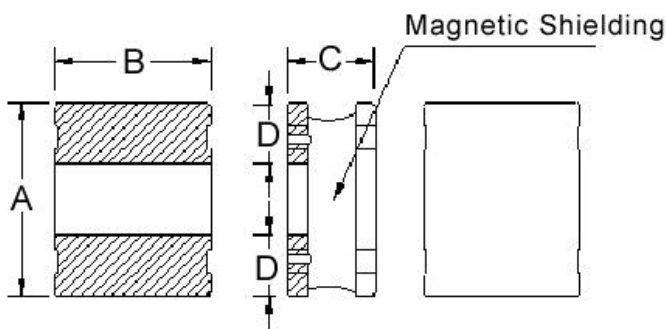
- Smartphones, tablets and wearable devices
- DSC, camcorders
- DC/DC converters

### Product Identification



### Shape and Dimensions

### Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
BWMR00201610	2.0±0.2	1.6±0.2	1.0 Max	0.65	1.7	0.7	0.7
BWMR00201612	2.0±0.2	1.6±0.2	1.2 Max	0.50	1.7	0.6	0.9
BWMR00252010	2.5±0.2	2.0±0.2	1.0 Max	0.85	2.1	0.9	0.8
BWMR00252012	2.5±0.2	2.0±0.2	1.2 Max	0.85	2.1	0.9	0.8
BWMR00302712	3.0±0.2	2.7±0.2	1.2 Max	1.00	2.9	1.1	1.0

# Sealed Power Inductors - BWMR Series

## Electrical Characteristics

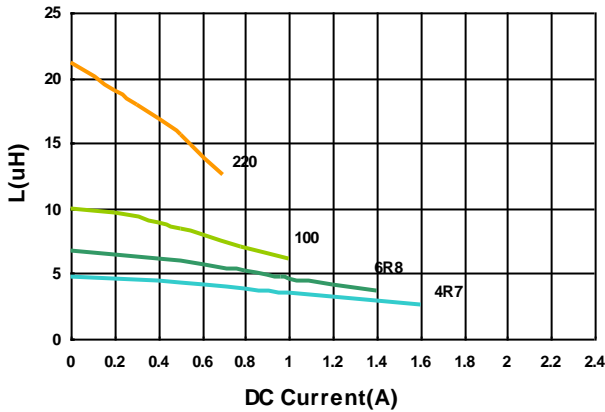
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002016104R7□00	4.7	1	20, 30	25	370(308)	1.00(1.20)	0.86(0.96)
BWMR002016106R8□00	6.8	1	20, 30	19	526(438)	0.86(0.96)	0.73(0.82)
BWMR00201610100□00	10	1	20, 30	15	768(640)	0.70(0.78)	0.64(0.72)
BWMR00201610220□00	22	1	20, 30	9	1560(1300)	0.49(0.55)	0.40(0.45)

**Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%**

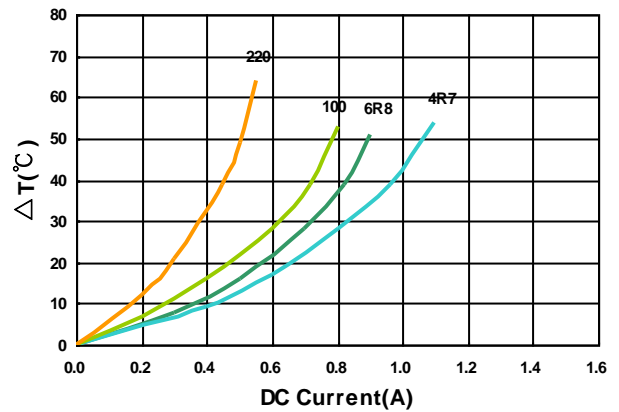
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
- L : Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
- RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
- Isat & I rms : Agilent/HP4285A+Agilent 42841A
- SRF : HP4294A+16092A

**Test Instruments :** HP4285A Material/Impedance Analyzer

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



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## Electrical Characteristics

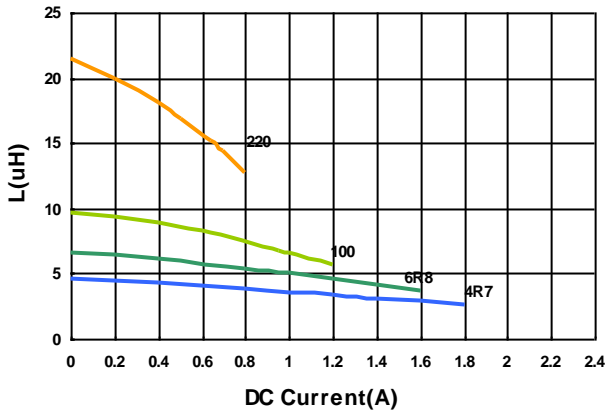
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR00201612-4R7□00	4.7	1	20, 30	26	324(270)	1.20(1.40)	1.00(1.20)
BWMR00201612-6R8□00	6.8	1	20, 30	20	456(380)	1.00(1.20)	0.78(0.92)
BWMR00201612-100□00	10	1	20, 30	16	720(600)	0.85(0.95)	0.65(0.73)
BWMR00201612-220□00	22	1	20, 30	10	1500(1250)	0.57(0.64)	0.41(0.46)

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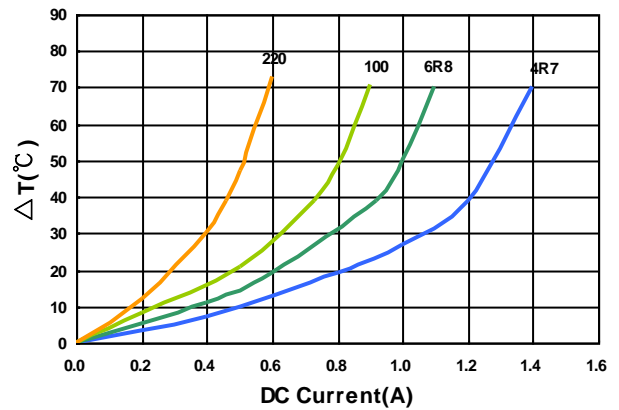
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**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



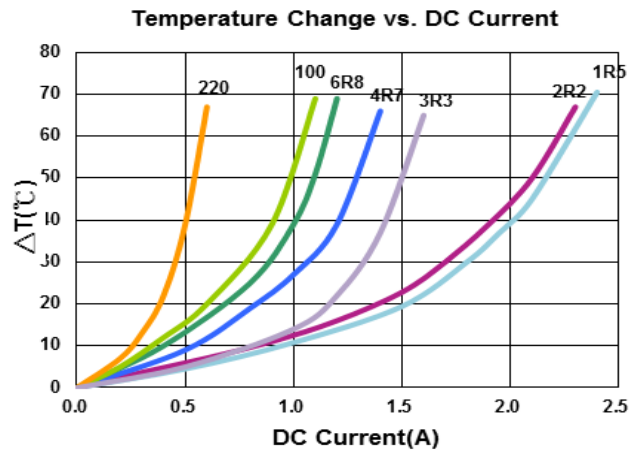
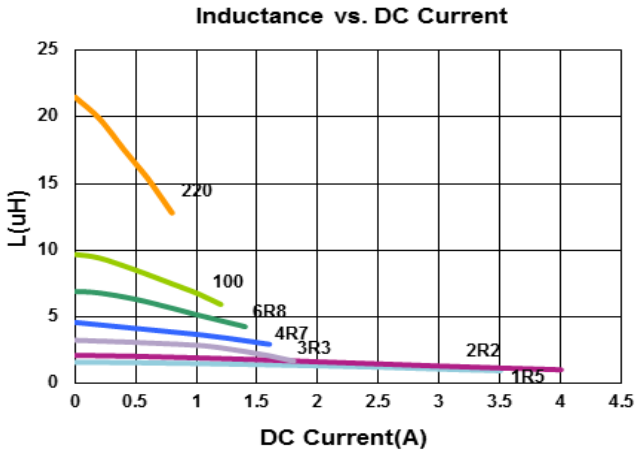
## Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002520101R5□00	1.5	1	20, 30	40	111.6(93)	2.20(2.80)	1.80(1.95)
BWMR002520102R2□00	2.2	1	20, 30	31	145(121)	1.90(2.30)	1.70(1.90)
BWMR002520103R3□00	3.3	1	20, 30	24	198(165)	1.40(1.60)	1.20(1.40)
BWMR002520104R7□00	4.7	1	20, 30	19	264(220)	1.30(1.40)	1.10(1.20)
BWMR002520106R8□00	6.8	1	20, 30	15	396(330)	1.00(1.10)	0.90(1.00)
BWMR00252010100□00	10	1	20, 30	12	500(435)	0.90(1.00)	0.80(0.90)
BWMR00252010220□00	22	1	20, 30	8	1260(1050)	0.56(0.63)	0.45(0.50)

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## Test Instruments : HP4285A Material/Impedance Analyzer



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

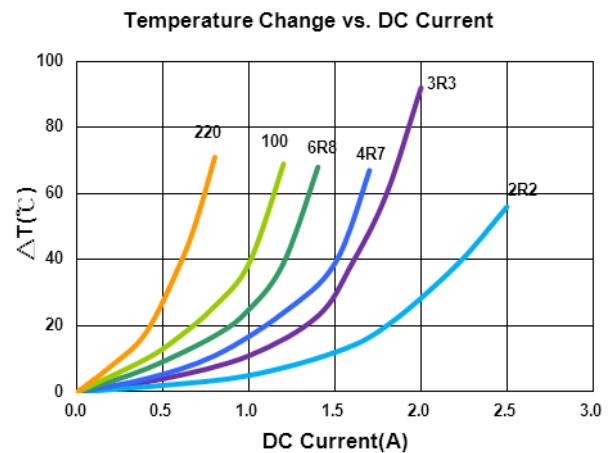
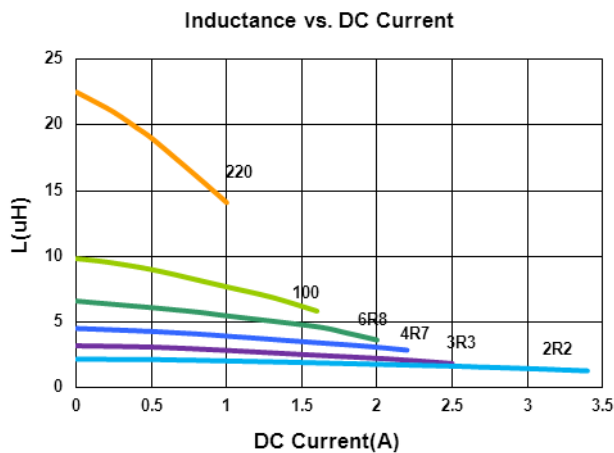
## Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002520122R2□00	2.2	1	20, 30	32	110(92)	2.40(2.70)	1.90(2.20)
BWMR002520123R3□00	3.3	1	20, 30	25	186(155)	1.80(2.10)	1.45(1.65)
BWMR002520124R7□00	4.7	1	20, 30	23	240(200)	1.70(1.90)	1.30(1.50)
BWMR002520126R8□00	6.8	1	20, 30	16	345(285)	1.30(1.60)	1.00(1.20)
BWMR00252012100□00	10	1	20, 30	14	480(400)	1.00(1.30)	0.85(1.00)
BWMR00252012220□00	22	1	20, 30	8	1090(910)	0.74(0.83)	0.54(0.60)

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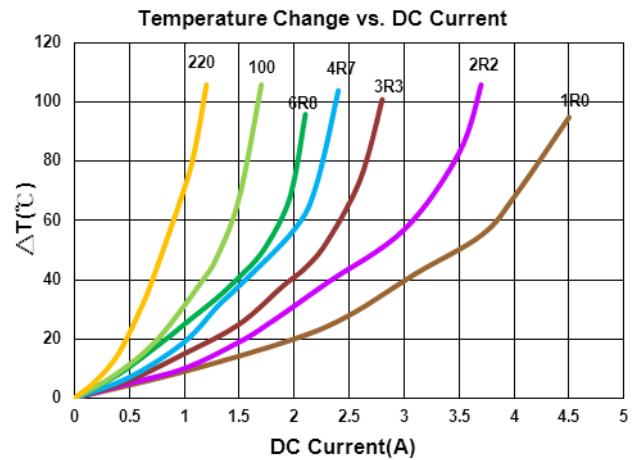
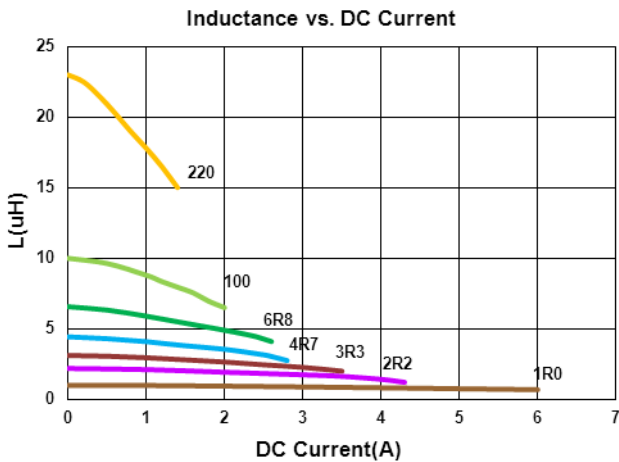
## Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR003027121R0□00	1.0	1	20, 30	52	64(54)	4.8(5.4)	2.7(3.0)
BWMR003027122R2□00	2.2	1	20, 30	28	114(95)	3.3(3.7)	2.0(2.3)
BWMR003027123R3□00	3.3	1	20, 30	25	165(138)	2.7(3.0)	1.7(1.9)
BWMR003027124R7□00	4.7	1	20, 30	20	234(195)	2.2(2.5)	1.3(1.5)
BWMR003027126R8□00	6.8	1	20, 30	16	318(265)	1.8(2.1)	1.1(1.3)
BWMR00302712100□00	10	1	20, 30	12	444(370)	1.5(1.7)	1.0(1.15)
BWMR00302712220□00	22	1	20, 30	7	954(795)	1.0(1.2)	0.63(0.7)

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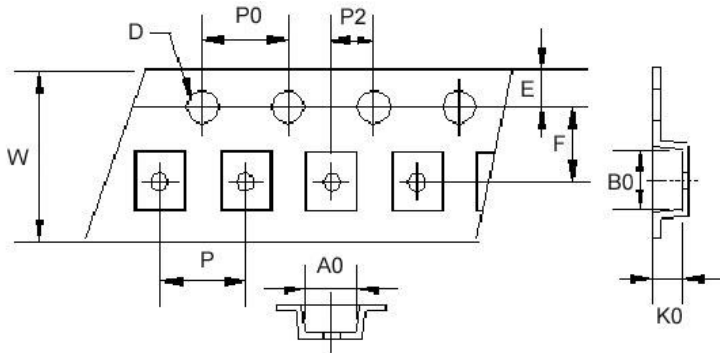
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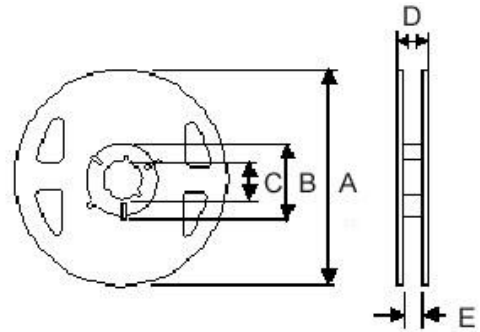
# Sealed Power Inductors - BWMR Series

## Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWMR00201610	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00201612	1.95	2.20	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00252010	2.35	2.80	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00252012	2.35	2.80	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00302712	2.90	3.20	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000

单击下面可查看定价，库存，交付和生命周期等信息

[>>CHILISIN\(奇力新\)](#)