

BWVS Series



BWVS series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter applications.

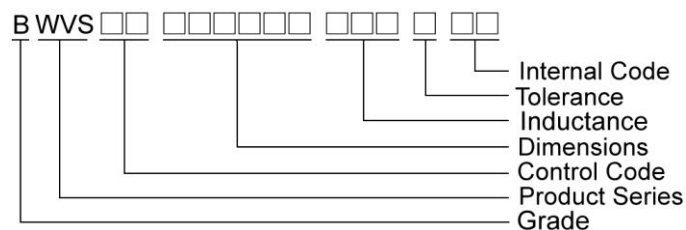
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

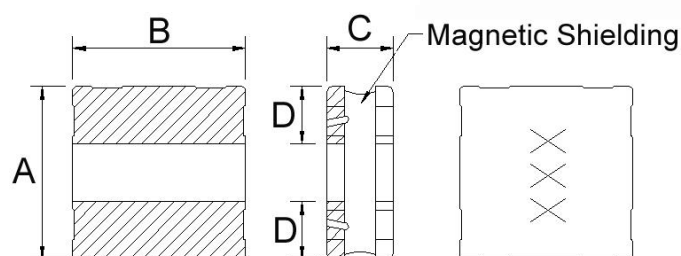
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification

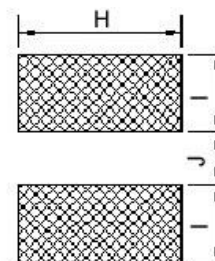


Shape and Dimensions

Figure 1



Recommended Pattern

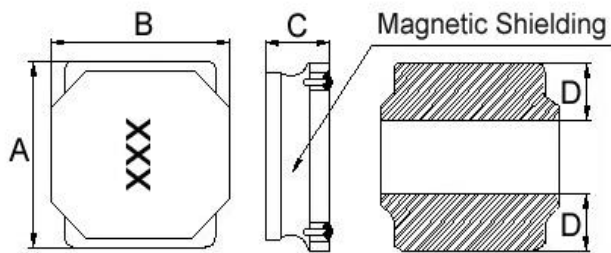


Dimensions in mm

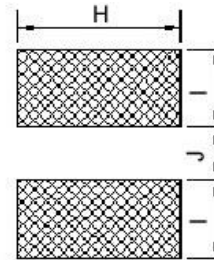
TYPE	FIG	A	B	C	D	H	I	J
BWVS00322515	1	3.2±0.2	2.5±0.2	1.50±0.2	1.0	2.6	1.2	1.0
BWVS00404012	1	4.0±0.2	4.0±0.2	1.20±0.1	1.5	4.2	1.5	1.2

Shape and Dimensions

Figure 2



Recommended Pattern

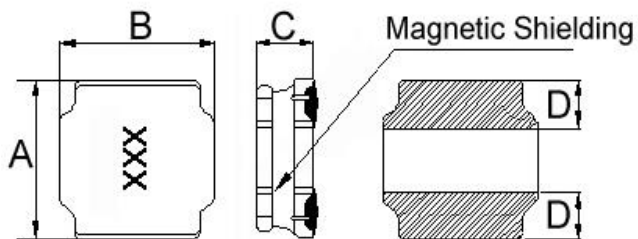


Dimensions in mm

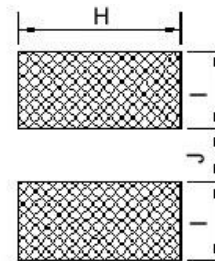
TYPE	FIG	A	B	C	D	H	I	J
BWVS00404018	2	4.0±0.2	4.0±0.2	1.8 ^{+0.2} _{-0.30}	1.3±0.3	3.7	1.2	1.6
BWVS00404026	2	4.0±0.2	4.0±0.2	2.6±0.2	1.4	3.7	1.2	1.6

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVS00505020	3	5.0±0.2	5.0±0.2	2.0 ^{+0.2} _{-0.30}	1.8±0.3	4.0	1.5	2.1
BWVS00505040	3	5.0±0.2	5.0±0.2	4.0 ^{+0.2} _{-0.30}	1.6±0.3	4.0	1.5	2.1
BWVS00606020	3	6.0±0.2	6.0±0.2	2.0 ^{+0.2} _{-0.30}	1.7±0.3	5.7	1.6	2.9
BWVS00606028	3	6.0±0.2	6.0±0.2	2.8 ^{+0.2} _{-0.30}	1.9±0.3	5.7	1.6	2.9
BWVS00606045	3	6.0±0.2	6.0±0.2	4.5 ^{+0.2} _{-0.30}	1.8±0.3	5.7	2.0	2.4
BWVS00808040	3	8.0±0.2	8.0±0.2	4.0 ^{+0.2} _{-0.30}	2.3±0.3	7.5	2.5	3.4

Sealed Power Inductors – BWVS Series

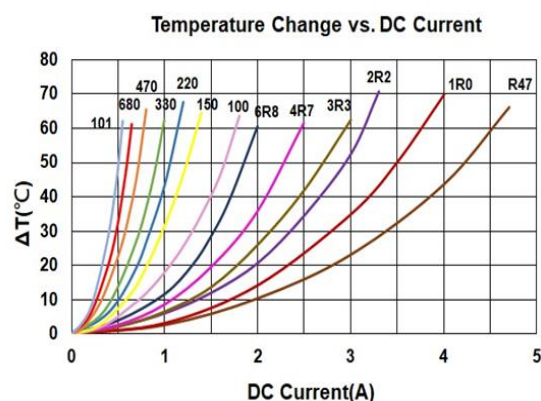
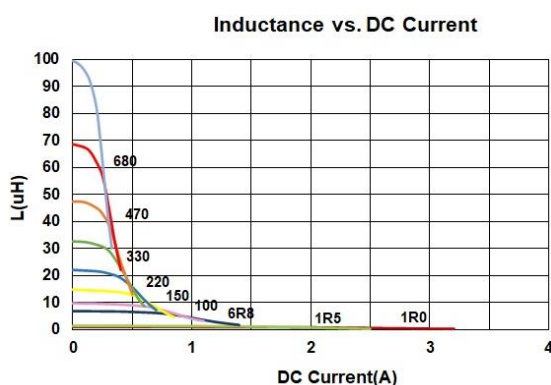
Electrical Characteristics

Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (kHz)	RDC (m Ω) $\pm 20\%$	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	SRF(MHz) Min.	Marking
BWVS00322515R22□00	0.22	20, 30	1MHz,1V	22	4.5(4.0)	4.2(3.7)	300	R22
BWVS00322515R47□00	0.47	20, 30	1MHz,1V	27	3.4(3.0)	3.8(3.4)	168	R47
BWVS003225151R0□00	1.0	20, 30	1MHz,1V	40	2.3(2.0)	3.2(2.8)	95	1R0
BWVS003225151R5□00	1.5	20, 30	1MHz,1V	47	1.8(1.6)	3.0(2.7)	81	1R5
BWVS003225152R2□00	2.2	20, 30	1MHz,1V	57	1.6(1.4)	2.8(2.5)	60	2R2
BWVS003225153R3□00	3.3	20, 30	1MHz,1V	77	1.3(1.1)	2.4(2.1)	45	3R3
BWVS003225154R7□00	4.7	20, 30	1MHz,1V	110	1.1(0.99)	2.0(1.8)	40	4R7
BWVS003225156R8□00	6.8	20, 30	1MHz,1V	160	0.90(0.81)	1.7(1.5)	30	6R8
BWVS00322515100□00	10	20, 30	1MHz,1V	220	0.78(0.70)	1.4(1.2)	25	100
BWVS00322515150□00	15	20, 30	1MHz,1V	320	0.60(0.54)	1.1(0.99)	21	150
BWVS00322515220□00	22	20, 30	1MHz,1V	470	0.50(0.45)	0.95(0.85)	17	220
BWVS00322515330□00	33	20, 30	1MHz,1V	700	0.40(0.36)	0.80(0.72)	12	330
BWVS00322515470□00	47	20, 30	1MHz,1V	1000	0.34(0.30)	0.65(0.58)	11	470
BWVS00322515680□00	68	20, 30	1MHz,1V	1400	0.29(0.26)	0.53(0.47)	9.5	680
BWVS00322515101□00	100	20, 30	1MHz,1V	1900	0.23(0.20)	0.43(0.38)	7.5	101
BWVS00322515121□00	120	20, 30	1MHz,1V	2800	0.20(0.18)	0.36(0.32)	6.7	121
BWVS00322515221□00	220	20, 30	1MHz,1V	4700	0.15(0.13)	0.26(0.23)	5.0	221
BWVS00322515471□00	470	20, 30	1MHz,1V	10000	0.10(0.09)	0.17(0.15)	3.3	471
BWVS00322515681□00	680	20, 30	1MHz,1V	15000	0.08(0.07)	0.14(0.12)	2.5	681
BWVS00322515102□00	1000	20, 30	0.1MHz,1V	23000	0.06(0.05)	0.11(0.09)	2.0	102

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$, T= $\pm 30\%$

- Operating temperature range – $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 - L : Agilent HP4285A+Agilent HP42841A, 100kHz 1V
 - RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat & Irms : Agilent HP4285A+ Agilent HP42841A

Test Instruments : HP4285A Material/Impedance Analyzer



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Sealed Power Inductors – BWVS Series

Electrical Characteristics

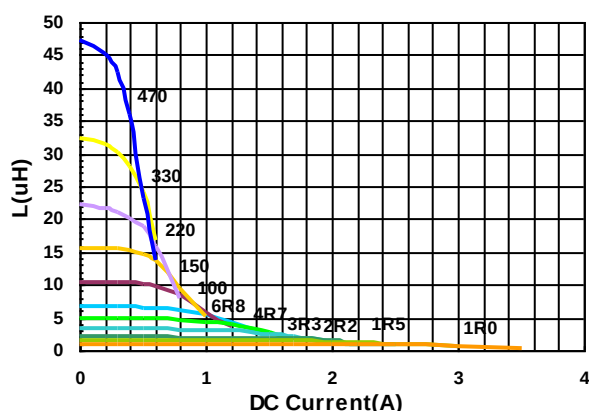
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040121R0□00	1.0	20, 30	100	48	2.50(2.25)	1.70(1.53)	1R0
BWVS004040121R5□00	1.5	20, 30	100	58	2.10(1.89)	1.60(1.44)	1R5
BWVS004040122R2□00	2.2	20, 30	100	65	1.70(1.53)	1.50(1.35)	2R2
BWVS004040123R3□00	3.3	20, 30	100	90	1.30(1.17)	1.40(1.26)	3R3
BWVS004040124R7□00	4.7	20, 30	100	110	1.10(0.99)	1.20(1.08)	4R7
BWVS004040126R8□00	6.8	20, 30	100	135	0.90(0.81)	1.05(0.94)	6R8
BWVS00404012100□00	10	20, 30	100	190	0.78(0.70)	0.90(0.81)	100
BWVS00404012150□00	15	20, 30	100	250	0.65(0.58)	0.85(0.76)	150
BWVS00404012220□00	22	20, 30	100	400	0.52(0.46)	0.75(0.67)	220
BWVS00404012330□00	33	20, 30	100	600	0.44(0.39)	0.70(0.63)	330
BWVS00404012470□00	47	20, 30	100	930	0.35(0.31)	0.50(0.45)	470

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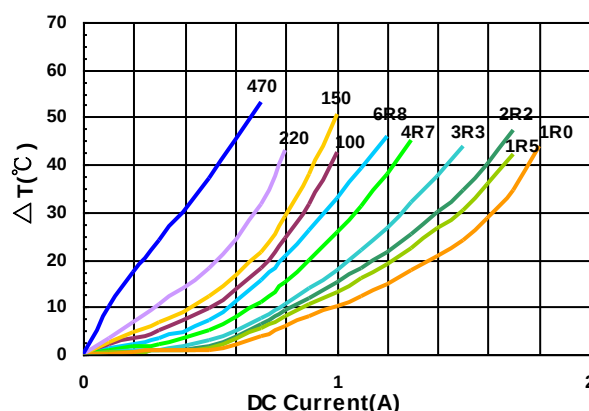
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Inductance vs. DC Current



Temperature Change vs. DC Current



Sealed Power Inductors – BWVS Series

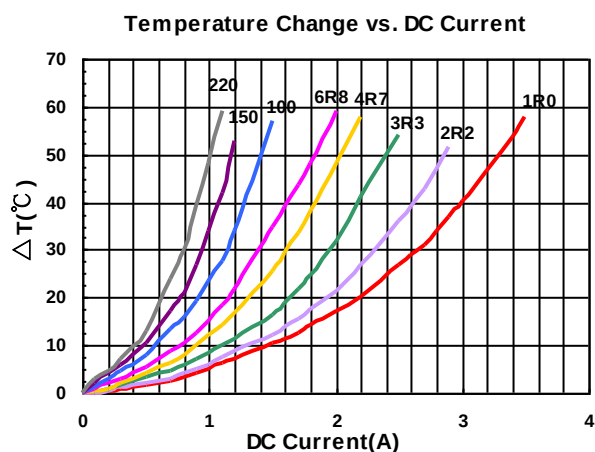
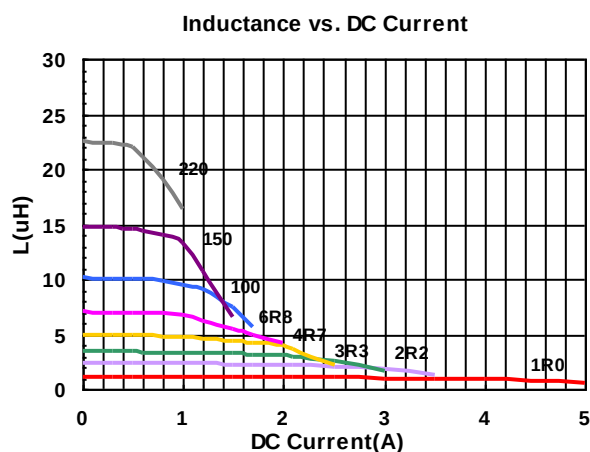
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040181R0□00	1.0	20, 30	100	32	4.10(3.69)	2.80(2.52)	1R0
BWVS004040181R5□00	1.5	20, 30	100	40	3.30(2.97)	2.60(2.34)	1R5
BWVS004040181R8□00	1.8	20, 30	100	55	2.80(2.50)	2.50(2.20)	1R8
BWVS004040182R2□00	2.2	20, 30	100	60	2.80(2.52)	2.50(2.25)	2R2
BWVS004040183R3□00	3.3	20, 30	100	70	2.20(1.98)	2.10(1.89)	3R3
BWVS004040183R6□00	3.6	20, 30	100	75	2.10(1.89)	1.90(1.71)	3R6
BWVS004040183R9□00	3.9	20, 30	100	75	2.10(1.89)	1.90(1.71)	3R9
BWVS004040184R7□00	4.7	20, 30	100	90	2.00(1.80)	1.70(1.53)	4R7
BWVS004040186R8□00	6.8	20, 30	100	110	1.60(1.44)	1.50(1.35)	6R8
BWVS004040188R2□00	8.2	20, 30	100	155	1.50(1.30)	1.30(1.10)	8R2
BWVS00404018100□00	10	20, 30	100	170	1.40(1.26)	1.20(1.08)	100
BWVS00404018150□00	15	20, 30	100	250	1.00(0.90)	1.00(0.90)	150
BWVS00404018220□00	22	20, 30	100	350	0.90(0.81)	0.85(0.76)	220
BWVS00404018330□00	33	20, 30	100	530	0.80(0.72)	0.70(0.63)	330
BWVS00404018470□00	47	20, 30	100	720	0.70(0.63)	0.56(0.50)	470
BWVS00404018680□00	68	20, 30	100	1000	0.56(0.50)	0.45(0.40)	680
BWVS00404018101□00	100	20, 30	100	1500	0.46(0.41)	0.38(0.34)	101
BWVS00404018121□00	120	20, 30	100	1600	0.38(0.34)	0.36(0.32)	121
BWVS00404018151□00	150	20, 30	100	2500	0.35(0.31)	0.30(0.27)	151
BWVS00404018221□00	220	20, 30	100	4000	0.28(0.25)	0.23(0.20)	221

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

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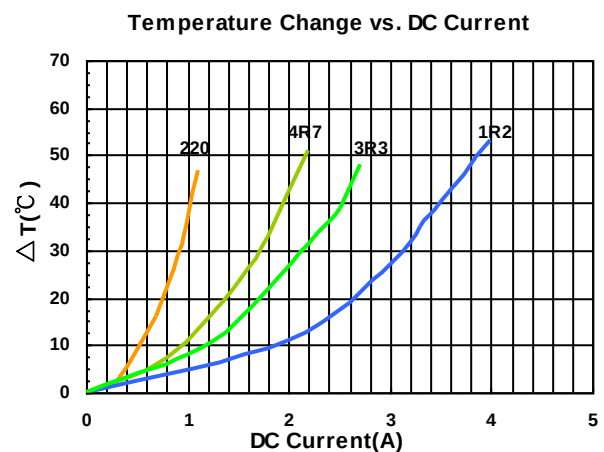
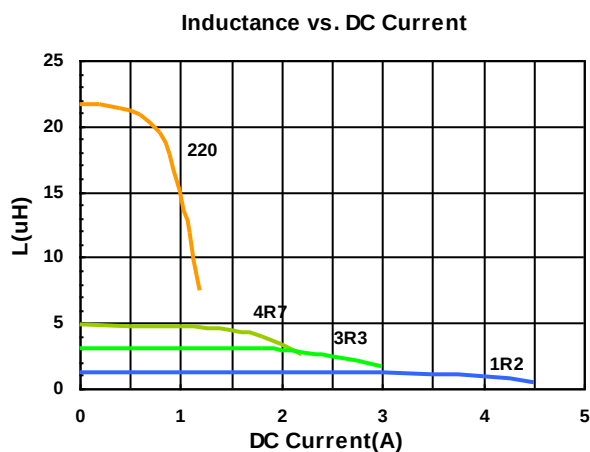
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040261R2□00	1.2	20, 30	100	30	3.50(3.15)	3.30(2.97)	1R2
BWVS004040263R3□00	3.3	20, 30	100	45	2.50(2.25)	2.50(2.25)	3R3
BWVS004040264R7□00	4.7	20, 30	100	60	1.80(1.62)	1.80(1.62)	4R7
BWVS00404026220□00	22	20, 30	100	230	0.86(0.77)	1.00(0.90)	220

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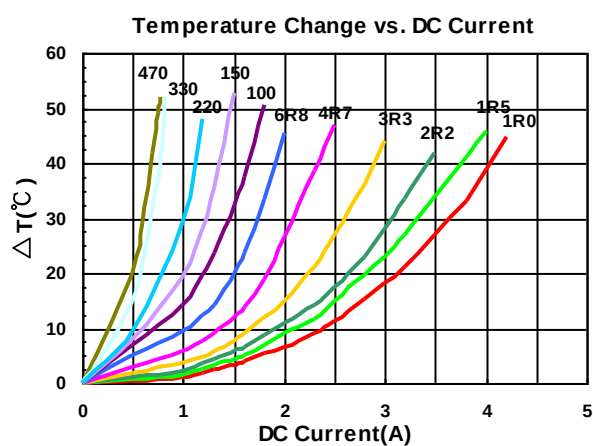
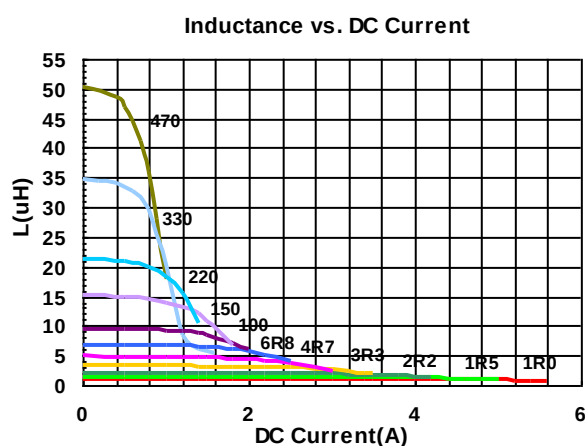
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BWVS005050201R0□00	1.0	20, 30	100	21	5.1(4.59)	4.0(3.60)	1R0
BWVS005050201R2□00	1.2	30	100	21	4.8(4.32)	3.8(3.42)	1R2
BWVS005050201R5□00	1.5	20, 30	100	26	4.2(3.78)	3.5(3.15)	1R5
BWVS005050202R2□00	2.2	20, 30	100	35	3.4(3.06)	3.2(2.88)	2R2
BWVS005050202R7□00	2.7	20, 30	100	38	3.05(2.7)	2.9(2.60)	2R7
BWVS005050203R3□00	3.3	20, 30	100	48	3.0(2.70)	2.8(2.52)	3R3
BWVS005050204R7□00	4.7	20, 30	100	60	2.2(1.98)	2.2(1.98)	4R7
BWVS005050205R6□00	5.6	20, 30	100	82	2.05(1.84)	2.0(1.80)	5R6
BWVS005050206R8□00	6.8	20, 30	100	90	2.0(1.80)	1.8(1.62)	6R8
BWVS00505020100□00	10	20, 30	100	120	1.6(1.44)	1.6(1.44)	100
BWVS00505020150□00	15	20, 30	100	190	1.3(1.17)	1.2(1.08)	150
BWVS00505020220□00	22	20, 30	100	260	1.0(0.90)	1.0(0.90)	220
BWVS00505020330□00	33	20, 30	100	460	0.8(0.72)	0.75(0.67)	330
BWVS00505020470□00	47	20, 30	100	580	0.65(0.58)	0.65(0.58)	470

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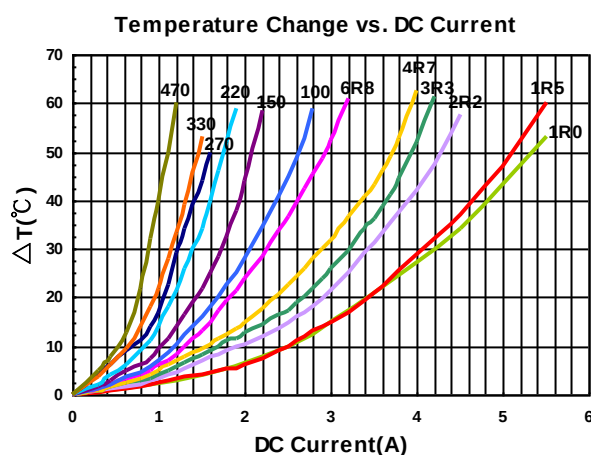
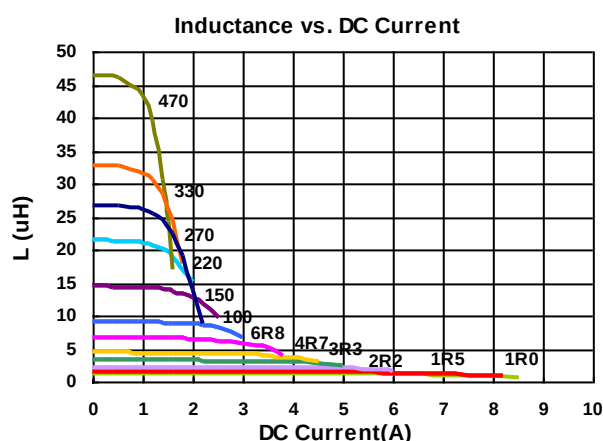
Electrical Characteristics

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BWVS00505040R68□00	0.68	20, 30	100	10	8.4(7.50)	5.6(5.00)	R68
BWVS005050401R0□00	1.0	20, 30	100	14	7.5(6.75)	4.6(4.14)	1R0
BWVS005050401R2□00	1.2	20, 30	100	15	7.4(6.66)	4.5(4.05)	1R2
BWVS005050401R5□00	1.5	20, 30	100	16	7.1(6.39)	4.4(3.96)	1R5
BWVS005050402R2□00	2.2	20, 30	100	21	5.7(5.13)	3.7(3.33)	2R2
BWVS005050403R0□00	2.2	20, 30	100	26	4.8(4.32)	3.5(3.15)	3R0
BWVS005050403R3□00	3.3	20, 30	100	26	4.8(4.32)	3.5(3.15)	3R3
BWVS005050403R6□00	3.6	20, 30	100	31	4.2(3.70)	3.3(2.90)	3R6
BWVS005050404R7□00	4.7	20, 30	100	32	4.2(3.78)	3.2(2.88)	4R7
BWVS005050405R6□00	5.6	20, 30	100	42	3.7(3.30)	2.8(2.50)	5R6
BWVS005050406R8□00	6.8	20, 30	100	50	3.3(2.97)	2.4(2.16)	6R8
BWVS00505040100□00	10	20, 30	100	60	2.8(2.52)	2.2(1.98)	100
BWVS00505040150□00	15	20, 30	100	90	2.3(2.07)	1.8(1.62)	150
BWVS00505040220□00	22	20, 30	100	135	1.8(1.62)	1.4(1.26)	220
BWVS00505040270□00	27	20, 30	100	180	1.6(1.44)	1.2(1.08)	270
BWVS00505040330□00	33	20, 30	100	190	1.5(1.35)	1.1(0.99)	330
BWVS00505040470□00	47	20, 30	100	310	1.2(1.08)	0.9(0.81)	470
BWVS00505040680□00	68	20, 30	100	540	1.0(0.90)	0.78(0.7)	680
BWVS00505040101□00	100	20, 30	100	800	0.7(0.60)	0.6(0.50)	101

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Sealed Power Inductors – BWVS Series

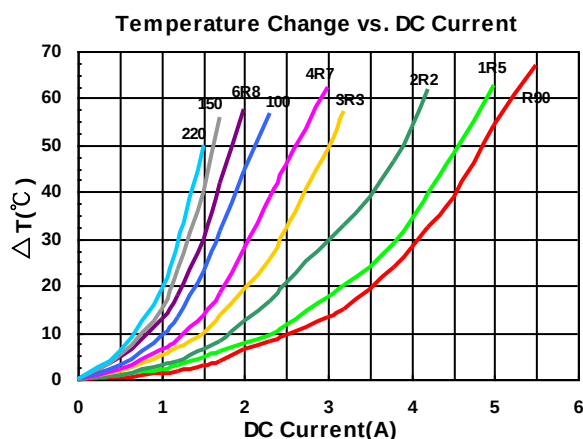
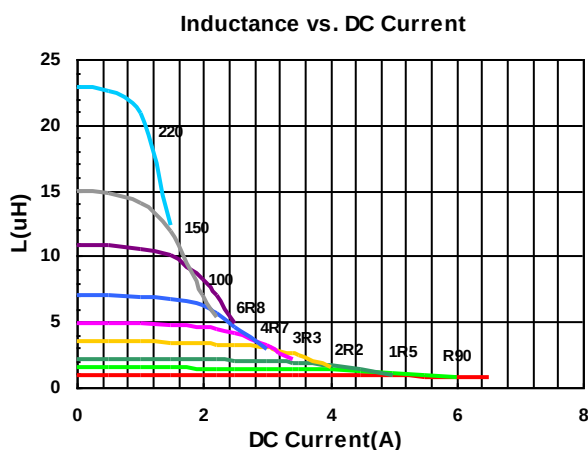
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00606020R50□00	0.5	30	100	13	8.0(7.20)	5.3(4.77)	R50
BWVS00606020R90□00	0.9	30	100	18	6.3(5.67)	4.2(3.78)	R90
BWVS006060201R0□00	1.0	30	100	19	6.2(5.58)	4.1(3.69)	1R0
BWVS006060201R5□00	1.5	20, 30	100	26	5.0(4.50)	3.6(3.24)	1R5
BWVS006060202R2□00	2.2	20, 30	100	34	4.2(3.78)	3.2(2.88)	2R2
BWVS006060203R3□00	3.3	20, 30	100	40	3.2(2.88)	2.7(2.43)	3R3
BWVS006060204R7□00	4.7	20, 30	100	58	2.5(2.25)	2.2(1.98)	4R7
BWVS006060206R8□00	6.8	20, 30	100	85	2.2(1.98)	1.8(1.62)	6R8
BWVS00606020100□00	10	20, 30	100	125	2.0(1.80)	1.6(1.44)	100
BWVS00606020150□00	15	20, 30	100	190	1.3(1.17)	1.3(1.17)	150
BWVS00606020220□00	22	20, 30	100	260	1.1(0.99)	1.1(0.99)	220

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

- Operating temperature range – 55°C ~ 125°C (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : Agilent HP4284A+Agilent HP42841A, 100kHz 1V
 RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



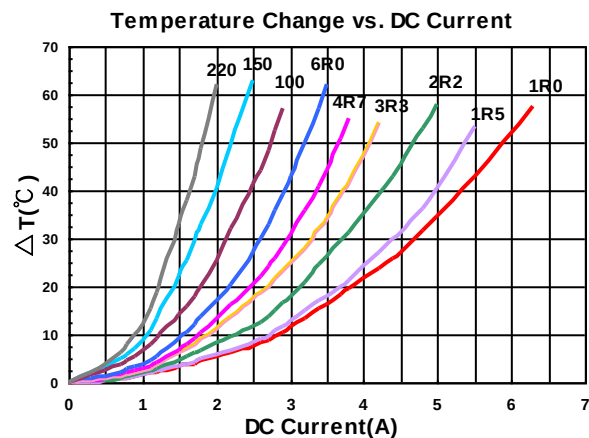
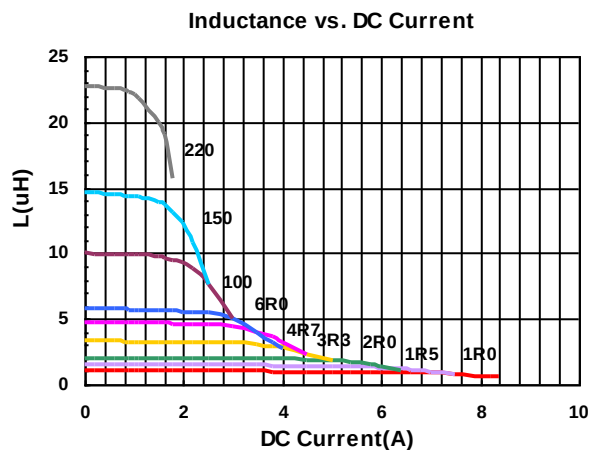
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS006060281R0□00	1.0	20, 30	100	13	7.6(6.84)	5.2(4.68)	1R0
BWVS006060281R5□00	1.5	20, 30	100	16	6.3(5.67)	4.8(4.32)	1R5
BWVS006060282R2□00	2.2	20, 30	100	20	5.4(4.86)	4.0(3.60)	2R2
BWVS006060282R7□00	2.7	20, 30	100	26	4.9(4.41)	3.7(3.33)	2R7
BWVS006060283R3□00	3.3	20, 30	100	28	4.3(3.87)	3.5(3.15)	3R3
BWVS006060284R7□00	4.7	20, 30	100	38	3.7(3.33)	3.2(2.88)	4R7
BWVS006060286R0□00	6.0	20, 30	100	45	3.3(2.97)	2.8(2.52)	6R0
BWVS006060286R8□00	6.8	20, 30	100	50	3.1(2.79)	2.7(2.43)	6R8
BWVS00606028100□00	10	20, 30	100	65	2.5(2.25)	2.3(2.07)	100
BWVS00606028150□00	15	20, 30	100	95	2.0(1.80)	1.8(1.62)	150
BWVS00606028220□00	22	20, 30	100	135	1.6(1.44)	1.5(1.35)	220
BWVS00606028330□00	33	20, 30	100	220	1.3(1.17)	1.4(1.26)	330
BWVS00606028470□00	47	20, 30	100	320	1.1(0.99)	1.0(0.90)	470
BWVS00606028680□00	68	20, 30	100	420	0.98(0.88)	0.9(0.81)	680
BWVS00606028101□00	100	20, 30	100	600	0.82(0.73)	0.8(0.72)	101

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 Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



Sealed Power Inductors - BWVS Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS006060451R0□00	1.0	20, 30	100	12	12.2(10.98)	6.5(5.85)	1R0
BWVS006060451R2□00	1.2	20, 30	100	13	10.6(9.50)	5.9(5.30)	1R2
BWVS006060451R5□00	1.5	20, 30	100	15	10.4(9.36)	5.9(5.31)	1R5
BWVS006060451R8□00	1.8	20, 30	100	17	9.6(8.64)	5.6(5.04)	1R8
BWVS006060452R2□00	2.2	20, 30	100	18.4	8.8(7.92)	5.1(4.59)	2R2
BWVS006060452R3□00	2.3	20, 30	100	19	8.8(7.92)	5.0(4.50)	2R3
BWVS006060453R0□00	3.0	20, 30	100	22	7.8(7.02)	4.4(3.96)	3R0
BWVS006060453R3□00	3.3	20, 30	100	24	7.5(6.75)	4.3(3.87)	3R3
BWVS006060453R6□00	3.6	20, 30	100	24	7.5(6.75)	4.3(3.87)	3R6
BWVS006060453R9□00	3.9	20, 30	100	26	7.0(6.30)	4.0(3.60)	3R9
BWVS006060454R5□00	4.5	20, 30	100	31	6.7(6.03)	3.9(3.51)	4R5
BWVS006060454R7□00	4.7	20, 30	100	31	6.7(6.03)	3.9(3.51)	4R7
BWVS006060455R1□00	5.1	20, 30	100	33	6.0(5.40)	3.5(3.15)	5R1
BWVS006060455R6□00	5.6	20, 30	100	40	5.5(4.95)	3.3(2.97)	5R6
BWVS006060456R3□00	6.3	20, 30	100	40	5.5(4.95)	3.3(2.97)	6R3
BWVS006060456R8□00	6.8	20, 30	100	43	5.3(4.77)	3.2(2.88)	6R8
BWVS006060458R2□00	8.2	20, 30	100	53	4.6(4.10)	2.9(2.60)	8R2
BWVS00606045100□00	10	20, 30	100	57	4.5(4.05)	2.7(2.43)	100
BWVS00606045150□00	15	20, 30	100	80	3.4(3.06)	2.2(1.98)	150
BWVS00606045180□00	18	20, 30	100	100	3.1(2.79)	1.8(1.62)	180
BWVS00606045220□00	22	20, 30	100	125	3.0(2.70)	1.9(1.71)	220
BWVS00606045270□00	27	20, 30	100	160	2.5(2.25)	1.3(1.17)	270
BWVS00606045330□00	33	20, 30	100	165	2.3(2.07)	1.4(1.26)	330
BWVS00606045470□00	47	20, 30	100	245	1.9(1.71)	1.2(1.08)	470
BWVS00606045560□00	56	20, 30	100	310	1.7(1.50)	1.1(0.99)	560
BWVS00606045680□00	68	20, 30	100	330	1.6(1.44)	1.0(0.90)	680
BWVS00606045101□00	100	20, 30	100	500	1.3(1.17)	0.8(0.72)	101
BWVS00606045181□00	180	20, 30	100	1280	0.95(0.85)	0.50(0.45)	181
BWVS00606045221□00	220	20, 30	100	1300	0.82(0.73)	0.38(0.34)	221
BWVS00606045331□00	330	20, 30	100	1800	0.70(0.63)	0.35(0.31)	331
BWVS00606045471□00	470	20, 30	100	2900	0.52(0.46)	0.32(0.28)	471
BWVS00606045561□00	560	20, 30	100	4300	0.57(0.51)	0.29(0.26)	561
BWVS00606045681□00	680	20, 30	100	5000	0.46(0.41)	0.26(0.23)	681
BWVS00606045102□00	1000	20, 30	100	6000	0.40(0.36)	0.22(0.19)	102

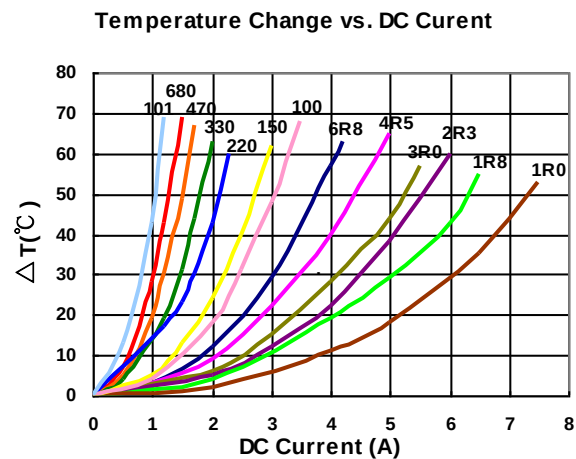
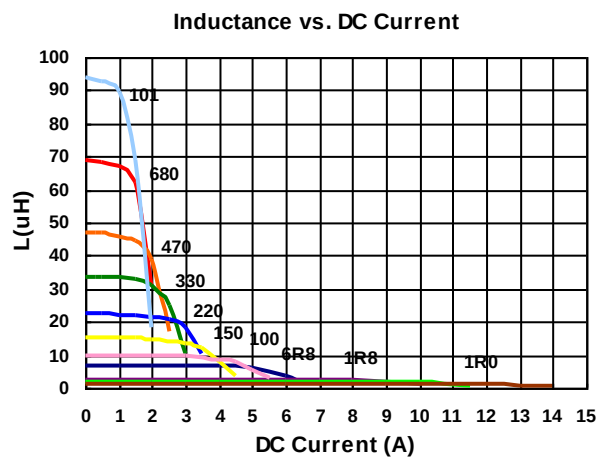
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 Isat & Irms : Agilent HP4284A

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Sealed Power Inductors - BWVS Series

Test Instruments : HP4284A Material/Impedance Analyzer



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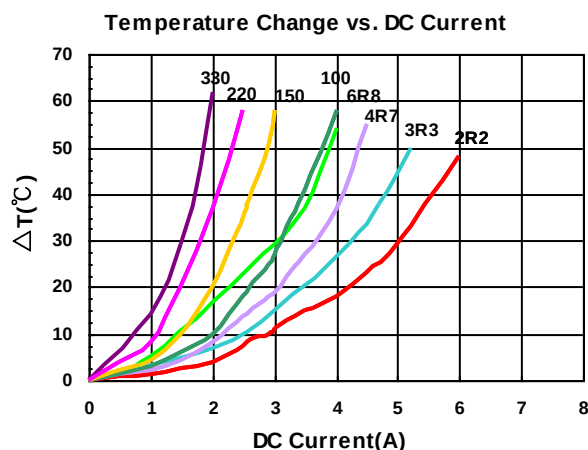
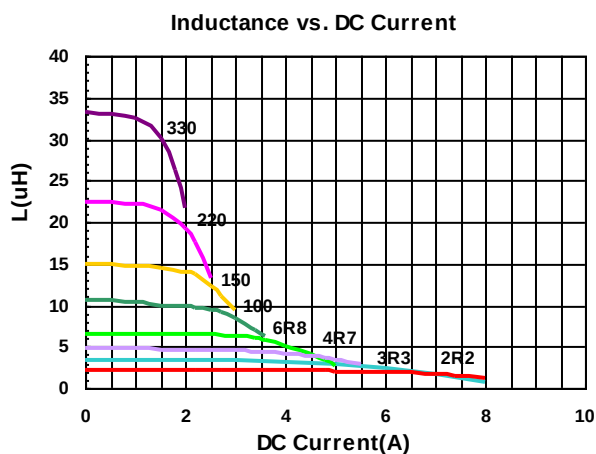
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00606045R47□L1	0.47	30	100	7.8	14.0(12.0)	8.00(7.20)	R47
BWVS00606045R50□L1	0.50	30	100	9	11.0(9.90)	8.00(7.20)	R50
BWVS00606045R68□L1	0.68	20, 30	100	10	10.0(9.00)	7.20(6.48)	R68
BWVS006060452R2□L1	2.2	20, 30	100	17	6.80(6.12)	5.50(4.95)	2R2
BWVS006060453R3□L1	3.3	20, 30	100	24	5.50(4.95)	4.70(4.23)	3R3
BWVS006060454R7□L1	4.7	20, 30	100	30	4.60(4.14)	4.00(3.60)	4R7
BWVS006060456R8□L1	6.8	20, 30	100	40	4.00(3.60)	3.50(3.15)	6R8
BWVS00606045100□L1	10	20, 30	100	50	3.20(2.88)	3.20(2.88)	100
BWVS00606045150□L1	15	20, 30	100	80	2.60(2.34)	2.50(2.25)	150
BWVS00606045220□L1	22	20, 30	100	120	2.10(1.89)	2.00(1.80)	220
BWVS00606045330□L1	33	20, 30	100	170	1.70(1.53)	1.60(1.44)	330
BWVS00606045101□L1	100	20, 30	100	595	0.95(0.85)	0.92(0.82)	101
BWVS00606045151□L1	150	20, 30	100	800	0.88(0.79)	0.82(0.73)	151
BWVS00606045221□L1	220	20, 30	100	1300	0.75(0.67)	0.65(0.58)	221
BWVS00606045681□L1	680	20, 30	100	3300	0.46(0.42)	0.38(0.33)	681

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

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- Measure Equipment :
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 - RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



Sealed Power Inductors - BWVS Series

Electrical Characteristics

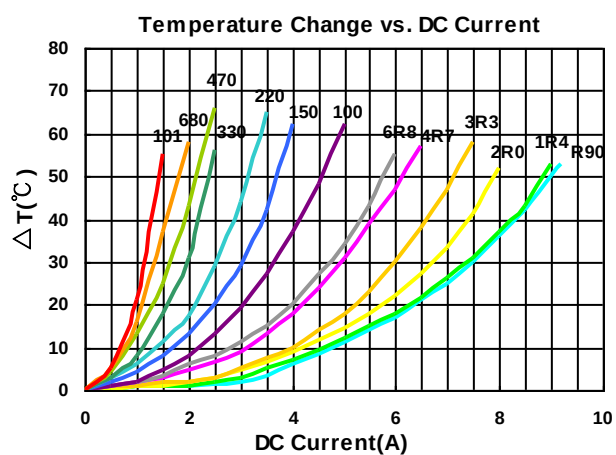
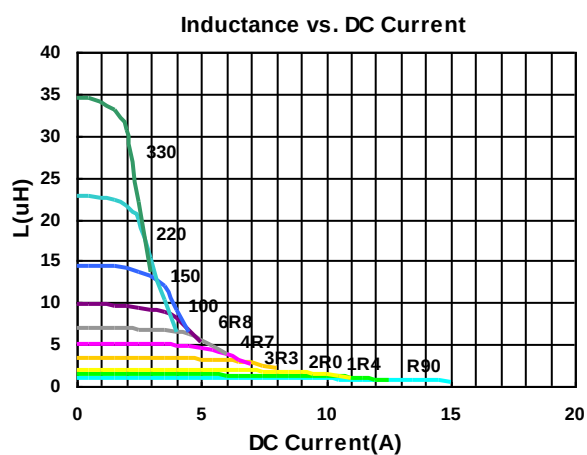
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00808040R90□00	0.9	30	100	7	13.8(12.42)	8.05(7.24)	R90
BWVS008080401R0□00	1.0	30	100	7.5	13.0(11.70)	7.95(7.15)	1R0
BWVS008080401R4□00	1.4	30	100	9	10.8(9.72)	7.8(7.02)	1R4
BWVS008080401R5□00	1.5	30	100	9.5	10.0(9.00)	7.7(6.93)	1R5
BWVS008080402R0□00	2.0	20, 30	100	11	9.6(8.64)	7.4(6.66)	2R0
BWVS008080402R2□00	2.2	20, 30	100	11.5	9.2(8.28)	7.2(6.48)	2R2
BWVS008080402R5□00	2.5	20, 30	100	13	8.2(7.38)	6.3(5.67)	2R5
BWVS008080403R3□00	3.3	20, 30	100	15	7.5(6.75)	6.0(5.40)	3R3
BWVS008080403R9□00	3.9	20, 30	100	18	6.1(5.40)	5.5(4.90)	3R9
BWVS008080404R7□00	4.7	20, 30	100	18	6.0(5.40)	5.5(4.95)	4R7
BWVS008080405R6□00	5.6	20, 30	100	23	5.7(5.13)	5.2(4.68)	5R6
BWVS008080406R8□00	6.8	20, 30	100	25	5.4(4.86)	5.1(4.59)	6R8
BWVS00808040100□00	10	20, 30	100	38	4.3(3.87)	3.8(3.42)	100
BWVS00808040120□00	12	20, 30	100	45	3.8(3.42)	3.5(3.15)	120
BWVS00808040150□00	15	20, 30	100	50	3.6(3.24)	3.2(2.88)	150
BWVS00808040180□00	18	20, 30	100	68	3.1(2.79)	2.7(2.43)	180
BWVS00808040220□00	22	20, 30	100	80	2.8(2.52)	2.6(2.34)	220
BWVS00808040330□00	33	20, 30	100	110	2.3(2.07)	2.0(1.80)	330
BWVS00808040470□00	47	20, 30	100	160	1.9(1.71)	1.75(1.57)	470
BWVS00808040510□00	51	20, 30	100	180	1.90(1.71)	1.70(1.53)	510
BWVS00808040680□00	68	20, 30	100	240	1.7(1.53)	1.45(1.30)	680
BWVS00808040101□00	100	20, 30	100	340	1.4(1.26)	1.10(0.99)	101
BWVS00808040121□00	120	20, 30	100	425	1.1(0.99)	1.0(0.90)	121
BWVS00808040151□00	150	20, 30	100	480	1.0(0.90)	0.9(0.81)	151
BWVS00808040181□00	180	20, 30	100	650	0.98(0.88)	0.7(0.63)	181
BWVS00808040221□00	220	20, 30	100	670	0.94(0.84)	0.60(0.54)	221
BWVS00808040271□00	270	20, 30	100	900	0.83(0.74)	0.55(0.49)	271
BWVS00808040331□00	330	20, 30	100	1600	0.80(0.72)	0.46(0.41)	331
BWVS00808040471□00	470	20, 30	100	1800	0.70(0.63)	0.40(0.36)	471
BWVS00808040821□00	820	20, 30	100	2800	0.40(0.36)	0.38(0.34)	821

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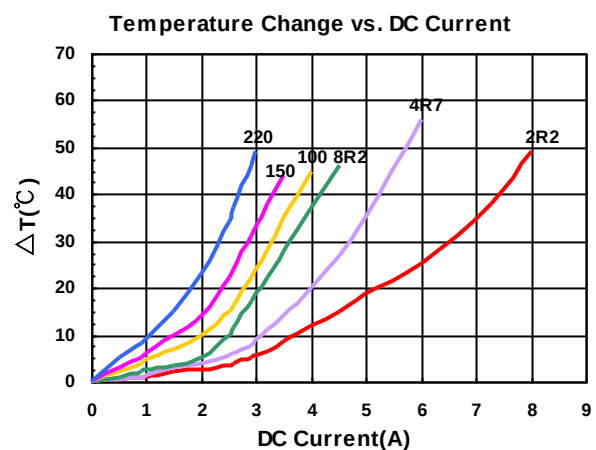
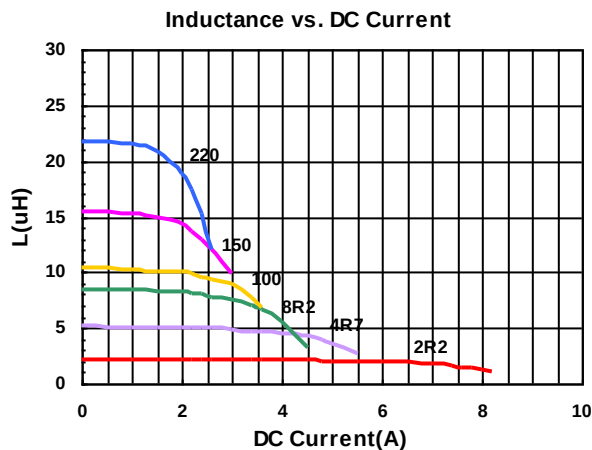
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS008080401R0□L1	1.0	30	100	10	9.5(8.55)	8.5(7.65)	1R0
BWVS008080402R2□L1	2.2	20,30	100	12	7.2(6.48)	7.3(6.57)	2R2
BWVS008080403R3□L1	3.3	20,30	100	19	5.6(5.04)	6.0(5.40)	3R3
BWVS008080404R7□L1	4.7	20,30	100	22	4.4(3.96)	5.0(4.50)	4R7
BWVS008080408R2□L1	8.2	20,30	100	37	3.6(3.24)	3.8(3.42)	8R2
BWVS00808040100□L1	10	20,30	100	42	3.1(2.79)	3.5(3.15)	100
BWVS00808040150□L1	15	20,30	100	58	2.5(2.25)	3.0(2.70)	150
BWVS00808040220□L1	22	20,30	100	85	2.0(1.80)	2.5(2.25)	220
BWVS00808040331□L1	330	20,30	100	1248	0.76(0.68)	0.78(0.70)	331
BWVS00808040471□L1	470	20,30	100	1690	0.65(0.58)	0.67(0.60)	471
BWVS00808040102□L1	1000	20,30	100	3731	0.45(0.40)	0.40(0.36)	102

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

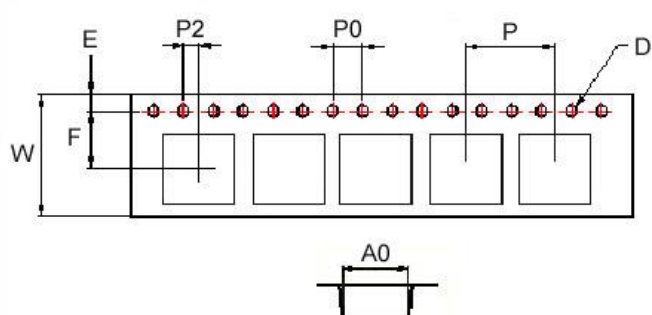
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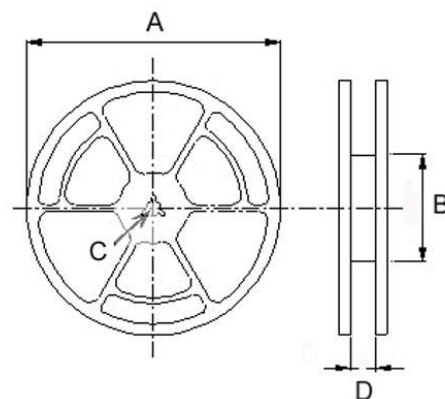


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity PCS / Reel
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	
BWVS00322515	2.85	3.56	1.80	1.55	1.75	5.5	8	4	4	2	178	60	9	1.50	2000
BWVS00404012	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	1000
BWVS00404018	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	800
BWVS00404026	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	500
BWVS00505020	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
BWVS00505040	5.20	5.20	4.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	1500
BWVS00606020	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
BWVS00606028	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1500
BWVS00606045	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	16	1000
BWVS00808040	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1000

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