



## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color
BWNL00241715R12□00	0.12	10 / 5	25	25.2	500	0.20	600	White
BWNL00241715R15□00	0.15	10 / 5	25	25.2	450	0.25	600	Black
BWNL00241715R18□00	0.18	10 / 5	25	25.2	410	0.30	570	Brown
BWNL00241715R22□00	0.22	10 / 5	25	25.2	350	0.35	550	Red
BWNL00241715R27□00	0.27	10 / 5	25	25.2	280	0.40	530	Orange
BWNL00241715R33□00	0.33	10 / 5	25	25.2	235	0.45	510	Yellow
BWNL00241715R39□00	0.39	10 / 5	25	25.2	210	0.50	490	Green
BWNL00241715R47□00	0.47	10 / 5	25	25.2	170	0.55	470	Blue
BWNL00241715R56□00	0.56	10 / 5	25	25.2	150	0.60	450	Violet
BWNL00241715R68□00	0.68	10 / 5	25	25.2	140	0.70	420	Gray
BWNL00241715R82□00	0.82	10 / 5	25	25.2	130	0.75	400	White
BWNL002417151R0□00	1.00	10 / 5	15	7.96	115	0.80	350	Black
BWNL002417151R2□00	1.20	10 / 5	15	7.96	95	0.90	325	Brown
BWNL002417151R5□00	1.50	10 / 5	15	7.96	85	1.05	300	Red
BWNL002417151R8□00	1.80	10 / 5	15	7.96	80	1.20	270	Orange
BWNL002417152R2□00	2.20	10 / 5	15	7.96	75	1.40	250	Yellow
BWNL002417152R7□00	2.70	10 / 5	15	7.96	70	1.60	230	Green
BWNL002417153R3□00	3.30	10 / 5	15	7.96	60	1.80	210	Blue
BWNL002417153R9□00	3.90	10 / 5	15	7.96	55	2.00	190	Violet
BWNL002417154R7□00	4.70	10 / 5	15	7.96	45	2.40	170	Gray
BWNL002417155R6□00	5.60	10 / 5	15	7.96	40	2.70	150	White
BWNL002417156R8□00	6.80	10 / 5	15	7.96	36	3.20	140	Black
BWNL002417158R2□00	8.20	10 / 5	15	7.96	33	3.60	120	Brown
BWNL00241715100□00	10.0	10 / 5	15	2.52	30	4.50	110	Red
BWNL00241715120□00	12.0	10 / 5	15	2.52	25	5.70	105	Orange
BWNL00241715150□00	15.0	10 / 5	15	2.52	23	6.50	90	Yellow
BWNL00241715180□00	18.0	10 / 5	15	2.52	21	7.00	85	Green
BWNL00241715220□00	22.0	10 / 5	15	2.52	20	8.00	78	Blue
BWNL00241715270□00	27.0	10 / 5	15	2.52	18	9.00	75	Violet
BWNL00241715330□00	33.0	10 / 5	15	2.52	17	10.0	70	Gray

**Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%**

- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :
  - L & Q : Agilent E4991A+Agilent HP16197A
  - SRF : Agilent E4991A
  - RDC : HP4338B or Chroma 16502

## Electrical Characteristics

Part Number	Inductance ( $\mu$ H)	Tolerance ( $\pm$ %)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC ( $\Omega$ ) Max	IDC (mA)	Color Coding		
								1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
BWNL002928225N0□00	0.005	10	10	100	3000	0.25	2000	Black	Green	Black
BWNL0029282210N□00	0.010	10	10	100	2500	0.25	1800	Brown	Black	Black
BWNL0029282212N□00	0.012	10	15	100	2400	0.26	1700	Brown	Red	Black
BWNL0029282215N□00	0.015	10	15	100	2300	0.28	1600	Brown	Green	Black
BWNL0029282218N□00	0.018	10	15	100	2200	0.30	1550	Brown	Gray	Black
BWNL0029282222N□00	0.022	10 / 5	20	100	2100	0.35	1500	Red	Red	Black
BWNL0029282227N□00	0.027	10 / 5	20	100	2000	0.40	1450	Red	Violet	Black
BWNL0029282233N□00	0.033	10 / 5	30	100	1600	0.42	1400	Orange	Orange	Black
BWNL0029282239N□00	0.039	10 / 5	35	100	1500	0.45	1350	Orange	White	Black
BWNL0029282247N□00	0.047	10 / 5	35	100	1400	0.50	1300	Yellow	Violet	Black
BWNL0029282256N□00	0.056	10 / 5	35	100	1300	0.60	1250	Green	Blue	Black
BWNL0029282268N□00	0.068	10 / 5	35	100	1200	0.65	1240	Blue	Gray	Black
BWNL0029282282N□00	0.082	10 / 5	35	100	1100	0.75	1230	Gray	Red	Black
BWNL00292822R10□00	0.10	10 / 5	35	100	800	0.80	1220	Brown	Black	Brown
BWNL00292522R12□00	0.12	10 / 5	30	25.2	700	0.30	900	Brown	Red	Brown
BWNL00292522R15□00	0.15	10 / 5	30	25.2	550	0.35	900	Brown	Green	Brown
BWNL00292522R18□00	0.18	10 / 5	30	25.2	500	0.40	850	Brown	Gray	Brown
BWNL00292522R22□00	0.22	10 / 5	30	25.2	450	0.50	840	Red	Red	Brown
BWNL00292522R27□00	0.27	10 / 5	30	25.2	425	0.55	830	Red	Violet	Brown
BWNL00292522R33□00	0.33	10 / 5	30	25.2	400	0.60	820	Orange	Orange	Brown
BWNL00292522R39□00	0.39	10 / 5	30	25.2	375	0.65	810	Orange	White	Brown
BWNL00292522R47□00	0.47	10 / 5	30	25.2	350	0.68	800	Yellow	Violet	Brown
BWNL00292522R56□00	0.56	10 / 5	30	25.2	325	0.75	800	Green	Blue	Brown
BWNL00292522R68□00	0.68	10 / 5	30	25.2	300	0.85	800	Blue	Gray	Brown
BWNL00292522R82□00	0.82	10 / 5	30	25.2	260	1.0	800	Gray	Red	Brown
BWNL002925221R0□00	1.0	10 / 5	25	7.96	245	1.1	800	Brown	Black	Red
BWNL002925221R2□00	1.2	10 / 5	25	7.96	230	1.2	790	Brown	Red	Red
BWNL002925221R5□00	1.5	10 / 5	25	7.96	182	1.3	750	Brown	Green	Red
BWNL002925221R8□00	1.8	10 / 5	25	7.96	135	1.45	750	Brown	Gray	Red
BWNL002925222R2□00	2.2	10 / 5	25	7.96	105	1.55	750	Red	Red	Red
BWNL002925222R7□00	2.7	10 / 5	25	7.96	70	1.7	740	Red	Violet	Red
BWNL002925223R3□00	3.3	10 / 5	25	7.96	55	1.9	730	Orange	Orange	Red

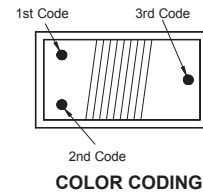
# SMD Wire Wound Ferrite Chip Inductors

BWNL Series

BWNL002925223R9□00	3.9	10 / 5	25	7.96	48	2.1	700	Orange	White	Red
BWNL002925224R7□00	4.7	10 / 5	25	7.96	43	2.3	650	Yellow	Violet	Red

**Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%**

- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :  
L & Q : HP4291A/HP4285A  
SRF : HP4291A/HP8753D  
RDC : HP4338B or Chroma 16502

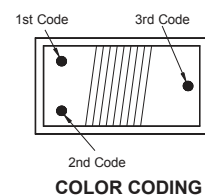


## Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	RDC (Ω) Max	IDC (mA)	Color Coding		
								1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>
BWNL002925225R6□00	5.6	10 / 5	20	7.96	42	2.5	640	Green	Blue	Red
BWNL002925226R8□00	6.8	10 / 5	20	7.96	39	2.7	630	Blue	Gray	Red
BWNL002925228R2□00	8.2	10 / 5	20	7.96	36	3.05	600	Gray	Red	Red
BWNL00292522100□00	10	10 / 5	15	2.52	33	3.5	600	Brown	Black	Orange
BWNL00292522120□00	12	10 / 5	15	2.52	30	3.8	550	Brown	Red	Orange
BWNL00292522150□00	15	10 / 5	15	2.52	26	4.4	430	Brown	Green	Orange
BWNL00292522180□00	18	10 / 5	15	2.52	24	4.8	400	Brown	Gray	Orange
BWNL00292522220□00	22	10 / 5	15	2.52	22	5.5	400	Red	Red	Orange
BWNL00292522270□00	27	10 / 5	15	2.52	21	6.3	360	Red	Violet	Orange
BWNL00292522330□00	33	10 / 5	15	2.52	20	7.1	350	Orange	Orange	Orange
BWNL00292522390□00	39	10 / 5	10	2.52	18	9.5	330	Orange	White	Orange
BWNL00292522470□00	47	10 / 5	10	2.52	17	11.1	300	Yellow	Violet	Orange
BWNL00292522560□00	56	10 / 5	10	2.52	16	12.1	270	Green	Blue	Orange
BWNL00292522680□00	68	10 / 5	10	2.52	15	16.6	250	Blue	Gray	Orange
BWNL00292522820□00	82	10 / 5	10	2.52	13	19	200	Gray	Red	Orange
BWNL00292522101□00	100	10 / 5	8	0.796	12	21	120	Brown	Black	Yellow

**Note: When ordering, please specify tolerance code. Tolerance : J=±5% , K=±10%**

- Operating temperature range - 25°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value with current
- Measure Equipment :  
L & Q : HP4291A/HP4285A  
SRF : HP4291A/HP8753D  
RDC : HP4338B or Chroma 16502



# SMD Wire Wound Ferrite Chip Inductors

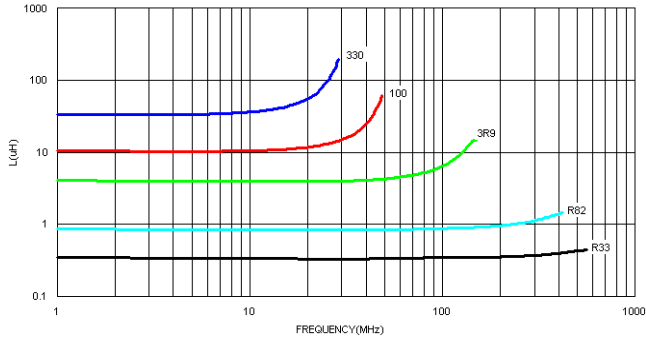
BWNL Series



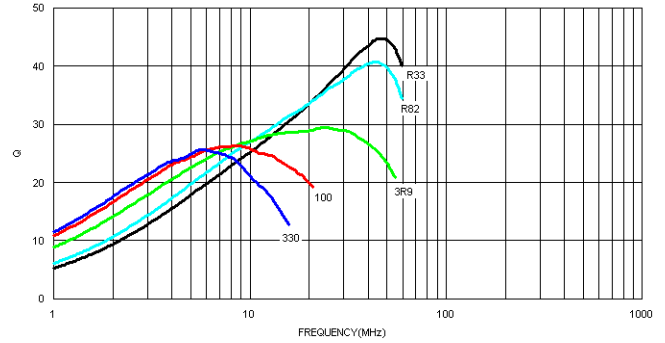
Test Instruments : Agilent E4991A Material/Impedance Analyzer

**BWNL00241715**

**Typical L vs. Frequency**

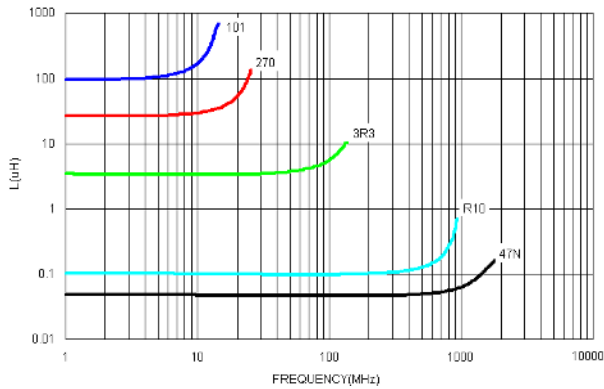


**Typical Q vs. Frequency**

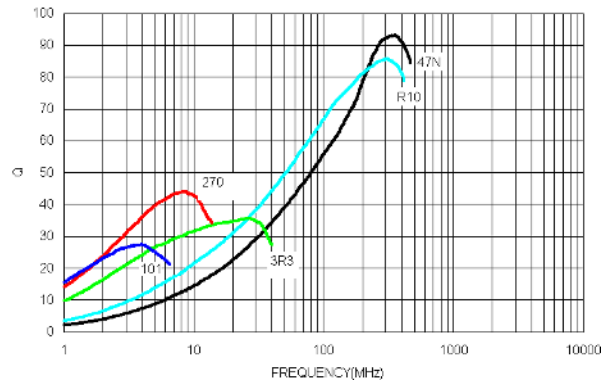


**BWNL00292522**

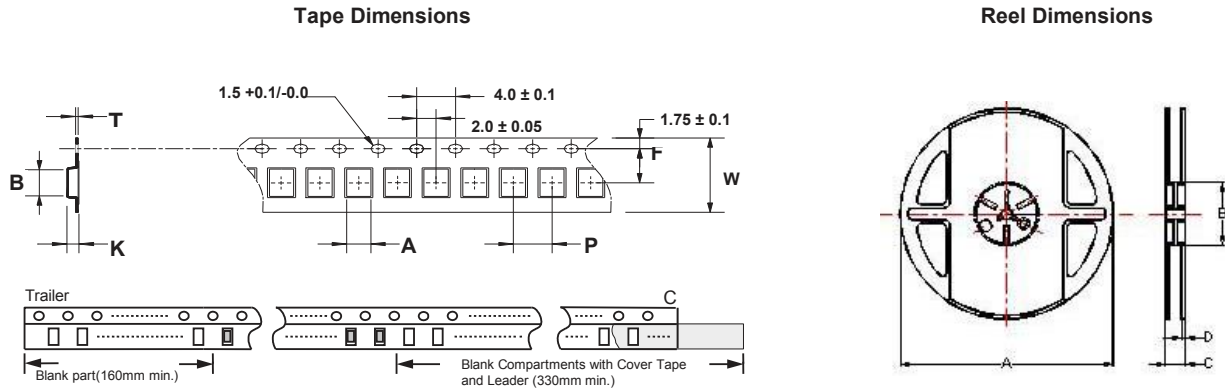
**Typical L vs. Frequency**



**Typical Q vs. Frequency**



## Packaging Specifications



### Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / Reel
BWNL00241715	1.85	2.45	0.23	8	4	3.5	1.45	178	60	12	1.5	2000
BWNL00292822(5N0~R10)	2.80	2.95	0.23	8	4	3.5	2.20	178	60	12	1.5	2000
BWNL00292522(R12~101)	2.40	2.93	0.26	8	4	3.5	2.25	178	60	12	1.5	2000

### For More Information:

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