



Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

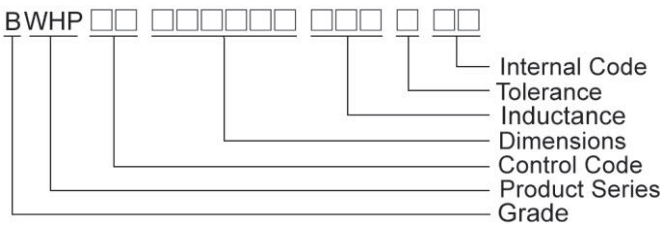
Features

- RoHS Compliant and Halogen Free
- Ceramic body and wire wound construction provide high Q and SRFs
- Higher Q and lower DCR than other inductors
- Exceptional current handling capability
- HP series is for high power and high frequency application

Applications

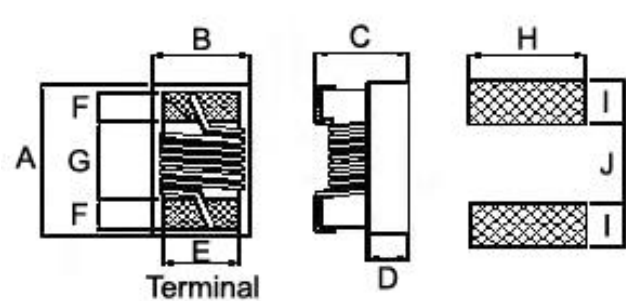
- Wireless embedded portable devices
- GPS receiver
- Base Station
- Repeater
- Set Top Box
- Cable / IP Modem
- Security system and other RF modules

Product Identification

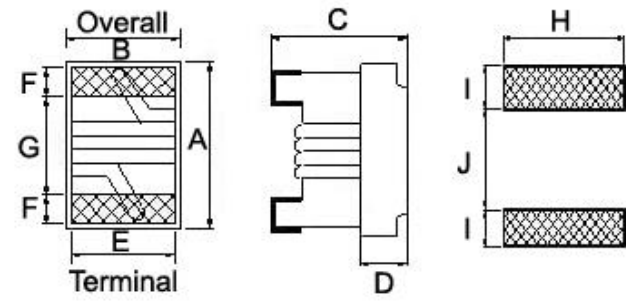


Shape and Dimensions / Recommended Pattern

BWHP00110706



BWHP00161008

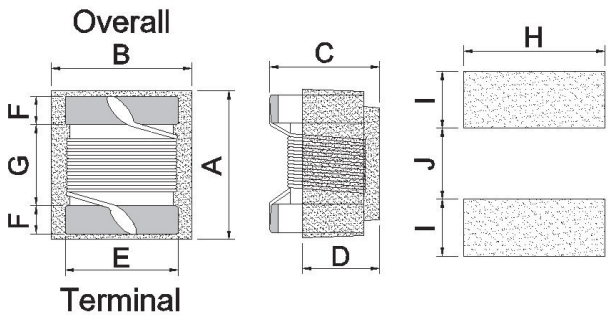


Dimensions

	A	B	C	D	E	F	G	H	I	J
BWHP00110706	1.160.05	0.7060.05	0.660.05	0.25	0.45	0.20	0.54	0.66	0.36	0.51
BWHP00161008	1.6 ^{+0.2} _{-0.1}	1.0060.1	0.82 ^{+0.2} _{-0.1}	0.30	0.70	0.30	0.95	1.02	0.64	0.64

Shape and Dimensions / Recommended Pattern

BWHP00231715



Dimensions

	A Max	B Max	C Max	D	E	F	G	H	I	J
BWHP00231715	2.35	1.73	1.52	0.71	1.27	0.30	1.44	1.78	1.02	0.76

Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max
BWHP001107061N0□00	1.0	±0.1nH / 5	250	18	250	16.0	0.030	2300
BWHP001107062N0□00	2.0	±0.2nH / 5	250	18	250	15.2	0.038	2100
BWHP001107062N2□00	2.2	±0.2nH / 5	250	25	250	15.1	0.045	2100
BWHP001107062N4□00	2.4	±0.2nH / 5	250	25	250	14.0	0.045	2000
BWHP001107062N7□00	2.7	±0.2nH / 5	250	20	250	13.0	0.090	1500
BWHP001107063N3□00	3.3	2 / 3 / 5	250	20	250	12.8	0.050	1700
BWHP001107063N6□00	3.6	2 / 3 / 5	250	28	250	11.7	0.065	1700
BWHP001107063N9□00	3.9	2 / 3 / 5	250	28	250	9.50	0.065	1700
BWHP001107064N3□00	4.3	2 / 3 / 5	250	22	250	7.15	0.060	1600
BWHP001107064N7□00	4.7	2 / 3 / 5	250	18	250	6.85	0.115	1500
BWHP001107065N1□00	5.1	2 / 3 / 5	250	20	250	6.80	0.125	1200
BWHP001107065N6□00	5.6	2 / 3 / 5	250	28	250	6.80	0.070	1600
BWHP001107066N2□00	6.2	2 / 3 / 5	250	25	250	5.80	0.070	1600
BWHP001107066N8□00	6.8	2 / 3 / 5	250	25	250	5.80	0.095	1500
BWHP001107067N5□00	7.5	2 / 3 / 5	250	25	250	5.40	0.130	1400
BWHP001107068N2□00	8.2	2 / 3 / 5	250	30	250	5.40	0.080	1500
BWHP001107068N7□00	8.7	2 / 3 / 5	250	30	250	5.00	0.085	1500
BWHP001107069N0□00	9.0	2 / 3 / 5	250	28	250	5.00	0.090	1400
BWHP001107069N5□00	9.5	2 / 3 / 5	250	30	250	4.70	0.095	1400
BWHP0011070610N□00	10	2 / 3 / 5	250	30	250	4.70	0.120	1300
BWHP0011070611N□00	11	2 / 3 / 5	250	30	250	4.70	0.095	1400
BWHP0011070612N□00	12	2 / 3 / 5	250	25	250	4.40	0.110	1200
BWHP0011070613N□00	13	2 / 3 / 5	250	30	250	4.20	0.140	870
BWHP0011070615N□00	15	2 / 3 / 5	250	30	250	3.90	0.130	1100
BWHP0011070616N□00	16	2 / 3 / 5	250	30	250	3.70	0.150	850
BWHP0011070618N□00	18	2 / 3 / 5	250	30	250	3.55	0.160	900
BWHP0011070619N□00	19	2 / 3 / 5	250	30	250	3.50	0.175	850
BWHP0011070620N□00	20	2 / 3 / 5	250	30	250	3.50	0.220	780
BWHP0011070621N□00	21	2 / 3 / 5	250	30	250	1.70	0.360	450
BWHP0011070622N□00	22	2 / 3 / 5	250	30	250	3.30	0.210	800
BWHP0011070623N□00	23	2 / 3 / 5	250	30	250	3.15	0.210	700
BWHP0011070624N□00	24	2 / 3 / 5	250	30	250	3.15	0.260	700

BWHP0011070625N□00	25	2 / 3 / 5	250	30	250	3.15	0.310	700
BWHP0011070626N□00	26	2 / 3 / 5	250	30	250	3.15	0.275	700

Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
- Measure Equipment :
L & Q : Agilent E4991A+Agilent HP16197A
SRF : Agilent HP8753D/Agilent HP8722ES
RDC : Chroma 16502
Irms : HP4284A+HP42841A/HP4285A+HP42841A

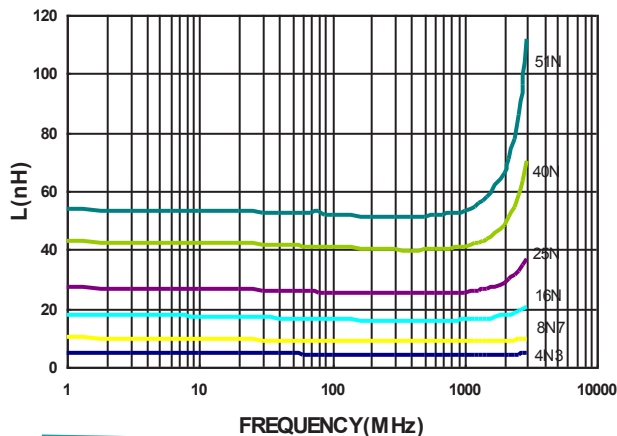
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max
BWHP0011070627N□00	27	2 / 3 / 5	250	30	250	3.20	0.300	450
BWHP0011070630N□00	30	2 / 3 / 5	250	30	250	2.90	0.350	450
BWHP0011070633N□00	33	2 / 3 / 5	250	30	250	2.80	0.380	490
BWHP0011070636N□00	36	2 / 3 / 5	250	30	250	2.80	0.480	480
BWHP0011070637N□00	37	2 / 3 / 5	250	30	250	2.70	0.490	470
BWHP0011070639N□00	39	2 / 3 / 5	250	30	250	2.60	0.520	450
BWHP0011070640N□00	40	2 / 3 / 5	250	30	250	2.60	0.520	450
BWHP0011070643N□00	43	2 / 3 / 5	250	29	250	2.50	0.720	450
BWHP0011070647N□00	47	2 / 3 / 5	250	30	250	2.40	0.720	420
BWHP0011070651N□00	51	2 / 3 / 5	250	30	250	2.30	0.980	360

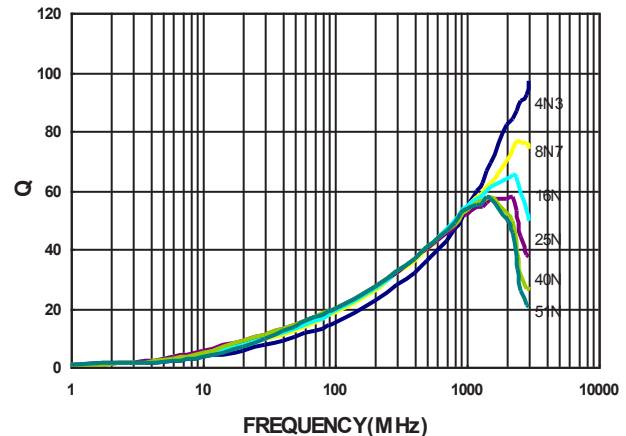
Note: When ordering, please specify tolerance code. Tolerance : B=±0.1nH , C=±0.2nH , G=±2% , H=±3% , J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
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SRF : Agilent HP8753D/Agilent HP8722ES
RDC : Chroma 16502
Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max	Color
BWHP001610081N8□00	1.8	5	250	23	250	16.0	0.033	2100	Black
BWHP001610082N2□00	2.2	5	250	13	250	15.0	0.182	900	Brown
BWHP001610083N9□00	3.9	5	250	26	250	7.50	0.062	1600	Red
BWHP001610084N3□00	4.3	3 / 5	250	26	250	7.50	0.088	1300	Orange
BWHP001610084N7□00	4.7	3 / 5	250	25	250	7.90	0.130	1100	Yellow
BWHP001610086N8□00	6.8	3 / 5	250	40	250	5.80	0.065	1400	Green
BWHP001610087N2□00	7.2	3 / 5	250	32	250	5.40	0.100	1400	Blue
BWHP001610087N5□00	7.5	3 / 5	250	32	250	5.30	0.100	1300	Violet
BWHP0016100811N□00	11	3 / 5	250	41	250	4.10	0.086	1400	Gray
BWHP0016100815N□00	15	3 / 5	250	42	250	3.60	0.110	1200	White
BWHP0016100816N□00	16	3 / 5	250	40	250	3.50	0.125	1100	Black
BWHP0016100822N□00	22	3 / 5	250	40	250	3.15	0.195	850	Brown
BWHP0016100823N□00	23	3 / 5	250	40	250	3.00	0.150	850	Red
BWHP0016100824N□00	24	3 / 5	250	42	250	2.95	0.125	1100	Orange
BWHP0016100827N□00	27	3 / 5	250	42	250	2.80	0.200	780	Yellow
BWHP0016100830N□00	30	3 / 5	250	49	250	2.80	0.130	920	Green
BWHP0016100833N□00	33	3 / 5	250	45	250	2.70	0.170	680	Blue
BWHP0016100836N□00	36	3 / 5	250	44	250	2.50	0.225	720	Violet
BWHP0016100839N□00	39	3 / 5	250	48	250	2.45	0.190	680	Gray
BWHP0016100843N□00	43	3 / 5	250	45	250	2.45	0.225	810	White
BWHP0016100847N□00	47	3 / 5	200	43	250	2.30	0.240	680	Black
BWHP0016100851N□00	51	3 / 5	200	42	250	2.30	0.280	660	Brown
BWHP0016100856N□00	56	3 / 5	200	43	250	2.20	0.300	610	Red
BWHP0016100868N□00	68	3 / 5	200	43	250	2.00	0.330	600	Orange
BWHP0016100872N□00	72	3 / 5	150	37	250	1.90	0.420	550	Yellow
BWHP0016100875N□00	75	3 / 5	150	37	250	1.90	0.520	500	Green
BWHP0016100882N□00	82	3 / 5	150	38	250	1.80	0.460	510	Blue
BWHP0016100891N□00	91	3 / 5	150	45	250	1.65	0.580	440	Violet
BWHP00161008R10□00	100	3 / 5	150	49	250	1.70	0.540	470	Gray
BWHP00161008R11□00	110	3 / 5	150	47	250	1.60	0.620	440	White

BWHP00161008R12□00	120	3 / 5	150	47	250	1.55	0.720	420	Black
BWHP00161008R15□00	150	3 / 5	150	47	250	1.35	1.150	390	Brown

Note: When ordering, please specify tolerance code. Tolerance : H=±3% , J=±5%

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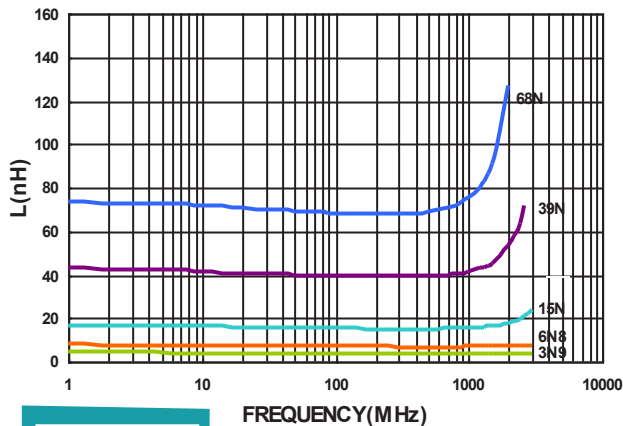
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (GHz) Typ.	RDC (Ω) Max	Irms (mA) Max	Color
BWHP00161008R18□00	180	3 / 5	100	48	250	1.30	1.500	310	Red
BWHP00161008R20□00	200	3 / 5	100	47	250	1.25	2.000	280	Orange
BWHP00161008R21□00	210	3 / 5	100	48	250	1.20	2.000	280	Yellow
BWHP00161008R22□00	220	3 / 5	100	47	250	1.10	2.000	280	Green
BWHP00161008R25□00	250	3 / 5	100	45	250	1.05	3.000	240	Blue
BWHP00161008R27□00	270	3 / 5	100	46	250	1.05	2.250	260	Violet
BWHP00161008R30□00	300	3 / 5	100	47	250	0.99	2.800	220	Gray
BWHP00161008R33□00	330	3 / 5	100	46	250	0.93	3.600	180	White
BWHP00161008R36□00	360	3 / 5	100	47	250	0.93	4.000	170	Black
BWHP00161008R39□00	390	3 / 5	100	47	250	0.88	4.000	170	Brown

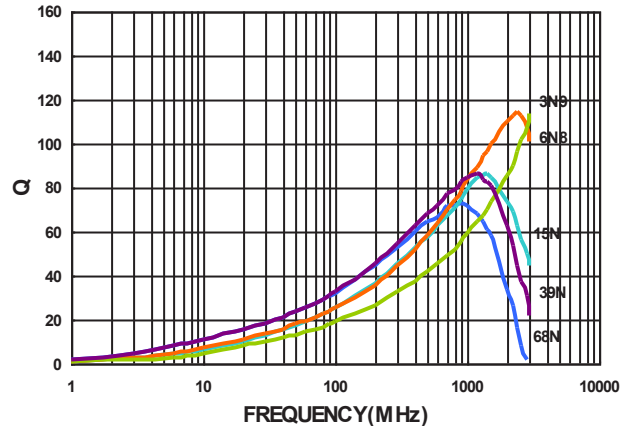
Note: When ordering, please specify tolerance code. Tolerance : H=±3% , J=±5%

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Irms for a 15°C temperature rise from 25°C ambient with current
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Irms : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. Frequency



Typical Q vs. Frequency



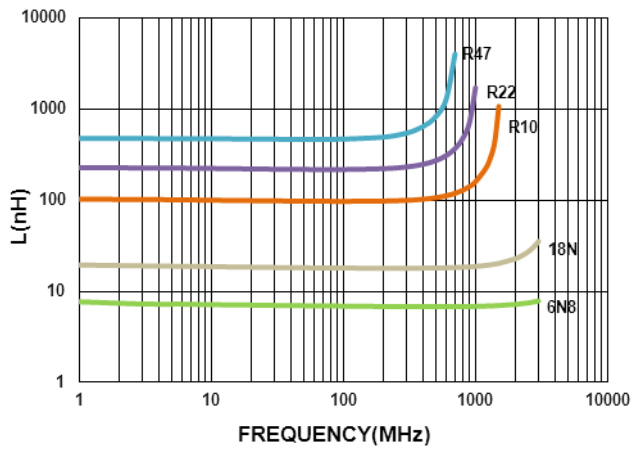
Electrical Characteristics

Part Number	Inductance (nH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Typ.	RDC (Ω) Max	I _{rms} (mA) Typ
BWHP002317152N6□00	2.6	5	250	100	1500	9500	0.015	2000
BWHP002317156N2□00	6.2	5	250	104	1000	7200	0.027	1500
BWHP002317156N8□00	6.8	5	250	90	1000	6000	0.066	1300
BWHP0023171511N□00	11	2 / 5	250	93	500	4750	0.039	1600
BWHP0023171512N□00	12	2 / 5	250	91	500	4425	0.039	1400
BWHP0023171513N□00	13	2 / 5	250	91	500	4100	0.039	1400
BWHP0023171518N□00	18	2 / 5	250	95	500	3650	0.050	1200
BWHP0023171533N□00	33	2 / 5	250	100	500	2410	0.087	1100
BWHP0023171547N□00	47	2 / 5	200	105	500	2170	0.093	1000
BWHP0023171556N□00	56	2 / 5	200	100	500	1815	0.122	950
BWHP0023171582N□00	82	2 / 5	150	103	500	1525	0.168	820
BWHP00231715R10□00	100	2 / 5	150	100	500	1400	0.220	720
BWHP00231715R12□00	120	2 / 5	150	80	250	1265	0.293	620
BWHP00231715R15□00	150	2 / 5	100	80	250	1150	0.288	600
BWHP00231715R18□00	180	2 / 5	100	77	250	1025	0.374	540
BWHP00231715R22□00	220	2 / 5	100	75	250	930	0.426	500
BWHP00231715R27□00	270	2 / 5	100	75	250	830	0.754	420
BWHP00231715R33□00	330	2 / 5	100	54	100	770	1.004	360
BWHP00231715R39□00	390	2 / 5	100	52	100	700	1.110	330
BWHP00231715R47□00	470	2 / 5	50	52	100	640	1.559	280
BWHP00231715R56□00	560	2 / 5	25	46	100	550	2.067	240
BWHP00231715R68□00	680	2 / 5	25	46	100	535	2.355	210
BWHP00231715R82□00	820	2 / 5	25	50	100	485	3.945	180

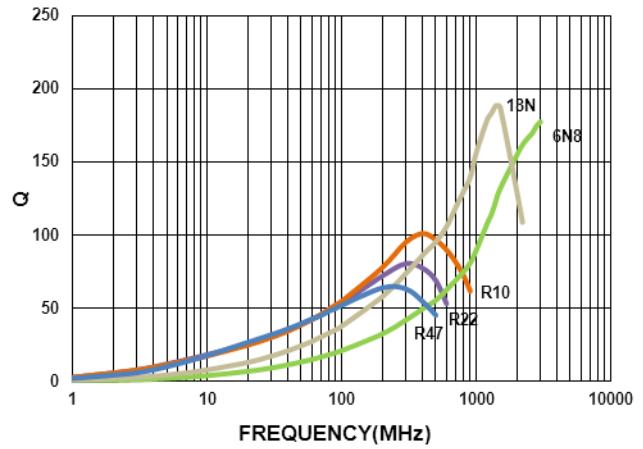
Note: When ordering, please specify tolerance code. Tolerance : G=±2% , J=±5%

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- I_{rms} for a 15°C temperature rise from 25°C ambient with current
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 SRF : Agilent HP8753D/Agilent HP8722ES
 RDC : Chroma 16502
 I_{rms} : HP4284A+HP42841A/HP4285A+HP42841A

Typical L vs. F Frequency



Typical Q vs. F Frequency



Packaging Specifications

Tape Dimensions

Figure 1

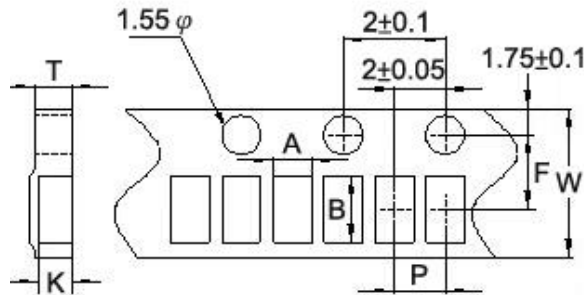
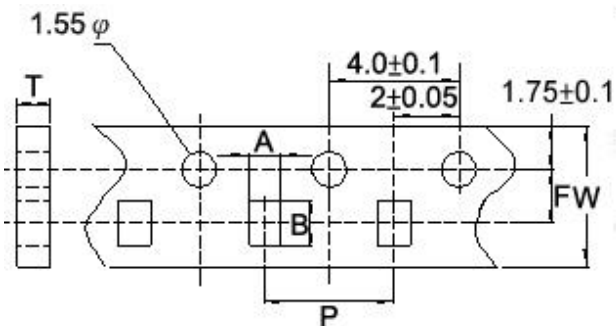
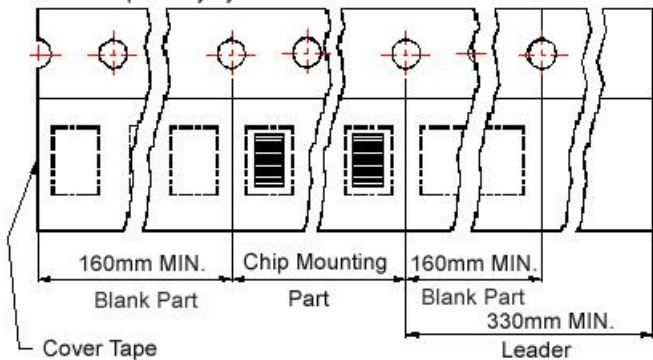


Figure 2

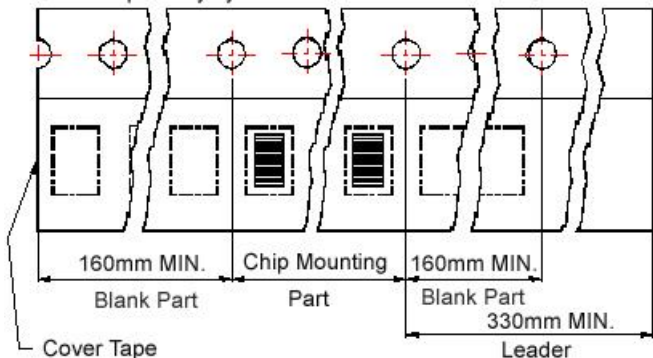


Tape Material

Carrier Tape: Paper
Cover Tape: Polystyrene



Carrier Tape: Paper
Cover Tape: Polystyrene

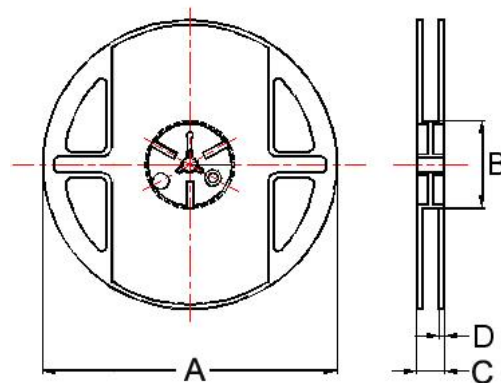
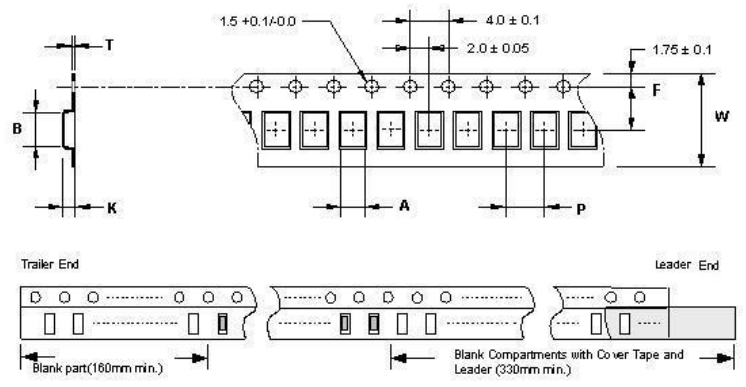


SMD Wire Wound Ceramic Chip Inductors

BWHP Series

Figure 3

Reel Dimensions



Dimensions in mm

TYPE	Fig.	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
		A	B	T	W	P	F	K	A	B	C	D	
BWHP00110706	1	0.80	1.20	0.75	8	2	3.5	0.62	178	60	12	1.5	4000
BWHP00161008	2	1.23	1.90	1.05	8	4	3.5	-	178	60	12	1.5	4000
BWHP00231715	3	1.85	2.45	0.23	8	4	3.5	1.50	178	60	12	1.5	2000

For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

BWHP0011070610NG00	BWHP0011070610NH00	BWHP0011070610NJ00	BWHP0011070611NG00
BWHP0011070611NH00	BWHP0011070611NJ00	BWHP0011070612NG00	BWHP0011070612NH00
BWHP0011070612NJ00	BWHP0011070613NG00	BWHP0011070613NH00	BWHP0011070613NJ00
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BWHP0011070622NG00	BWHP0011070622NH00	BWHP0011070622NJ00	BWHP0011070623NG00
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BWHP0011070630NJ00	BWHP0011070633NG00	BWHP0011070633NH00	BWHP0011070633NJ00
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