

Wire Wound Ceramic Chip Inductor

繞線式陶瓷晶片電感

HBWS Series for High Frequency

HBWS 系列適用於高頻

INTRODUCTION 產品介紹

The HBWS is the chip inductors of a wire wound type widely used in the communication applications, such as cellular phones, television tuners, radios, and other electronic devices. The features of wire wound are higher self-resonate frequency, better Q factor, and much stable performance.

HBWS 系列繞線式電感廣泛適用於通訊產品，諸如行動電話、TV Tuners、收音機及其他電子設備。繞線的特徵在具有較高的共振頻率，良好的品質系數及穩定的電氣特性。

FEATURE 特色

1. Operating temperature -40°C to $+85^{\circ}\text{C}$.
操作溫度從 -40°C 到 $+85^{\circ}\text{C}$ 。
2. Excellent solderability and resistance to soldering heat.
良好的焊錫性及耐熱性。
3. Suitable for flow and reflow soldering.
適用於 Flow 及 Reflow 之焊錫。
4. Standard dimensions, high reliability, and easy surface mount assembly.
標準的尺寸，高可靠度及易於表面黏著置。
5. Wide range of inductance value for flexible needs.
各種範圍的電感量可供選擇。

APPLICATION 適用產品

High-frequency applications are below:

高頻產品應用如下：

1. Mobile phones.
行動電話
2. Portable phones.
手提式電話
3. Cordless phones.
無線電話

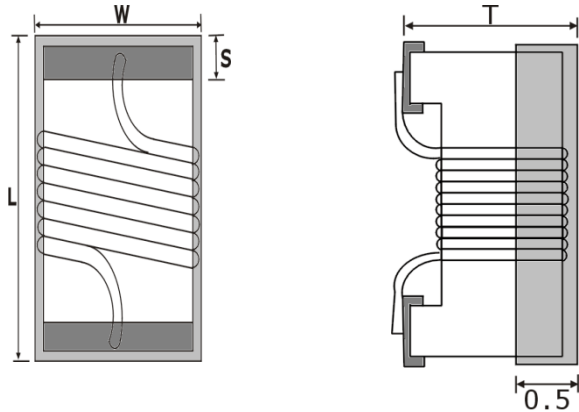
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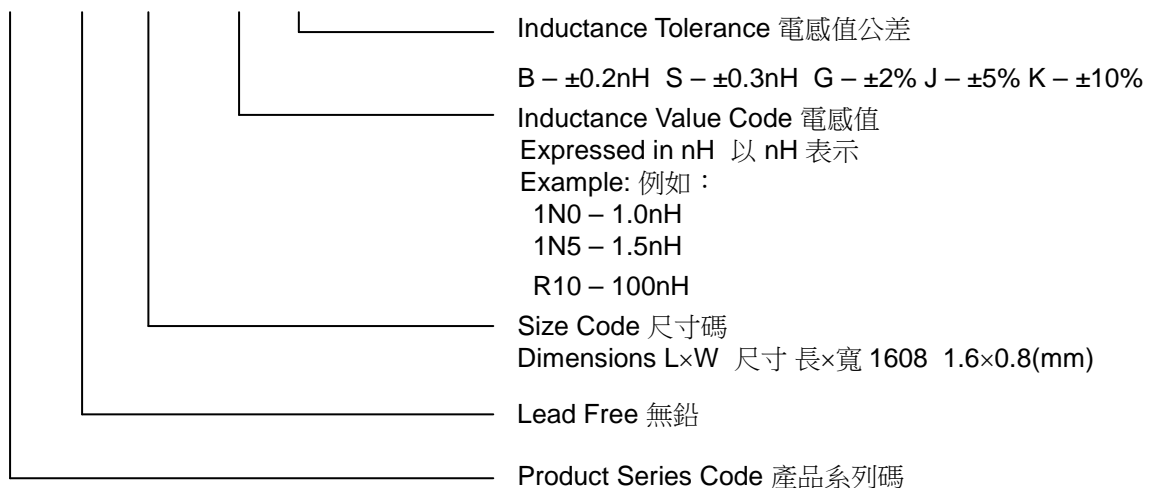
SIZE AND DIMENSION 尺寸和邊長



SIZE 尺寸	L 長 mm	W 寬 mm	T 厚 mm	S 銀寬 mm
1005 (0402)	1.00±0.1	0.55±0.1	0.50±0.1	0.20±0.1
1608 (0603)	1.60±0.2	1.05±0.2	1.05±0.2	0.35±0.1
2012 (0805)	2.00±0.2	1.25±0.2	1.20±0.2	0.40±0.1
2520 (1008)	2.50±0.2	2.00±0.2	1.60±0.2	0.50±0.1
3225 (1210)	3.20±0.2	2.50±0.2	2.20±0.2	0.50±0.1

PART NUMBER SYSTEM 編碼系統

HBW S 1608 1N5 J



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Electrical Characteristics 電氣特性

Size (尺寸): 1005 (0402)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	L/Q Test Freq. 測試頻率 (MHz)	Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
HBWS1005-1N0	1.0	B,S	13	250	6000	0.045	1360
HBWS1005-2N0	2.0	B,S	16	250	6000	0.070	1040
HBWS1005-2N2	2.2	B,S	18	250	6000	0.070	960
HBWS1005-3N3	3.3	B,S	20	250	6000	0.066	840
HBWS1005-3N6	3.6	J,K	20	250	6000	0.066	840
HBWS1005-3N9	3.9	J,K	20	250	5800	0.066	840
HBWS1005-5N1	5.1	B,J,K	23	250	5800	0.083	800
HBWS1005-5N6	5.6	B,J,K	23	250	5800	0.083	760
HBWS1005-6N2	6.2	B,J,K	23	250	5800	0.083	760
HBWS1005-7N5	7.5	B,J,K	25	250	5800	0.104	680
HBWS1005-8N2	8.2	B,J,K	25	250	4400	0.104	680
HBWS1005-9N0	9.0	B,J,K	25	250	4160	0.104	680
HBWS1005-10N	10	G,K	23	250	3900	0.195	480
HBWS1005-11N	11	G,K	26	250	3680	0.120	640
HBWS1005-12N	12	G,K	26	250	3600	0.120	640
HBWS1005-15N	15	G,K	26	250	3280	0.172	560
HBWS1005-19N	19	G,K	26	250	3040	0.202	480
HBWS1005-23N	23	G,K	26	250	2720	0.214	400
HBWS1005-27N	27	G,K	26	250	2480	0.298	400
HBWS1005-36N	36	G,K	26	250	2320	0.403	320
HBWS1005-40N	40	G,K	26	250	2240	0.438	320
HBWS1005-47N	47	G,K	26	200	2100	0.830	150

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Electrical Characteristics 電氣特性

Size (尺寸): 1608 (0603)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 係數 Min.	L/Q Test Freq. 測試頻率 (MHz)	Q Typ. 品質係數 @900MHz	Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
HBWS1608-2N0	2.0	B,S	16	250	31	6900	0.08	700
HBWS1608-3N9	3.9	B,S	22	250	51	6900	0.08	700
HBWS1608-4N7	4.7	B,S	20	250	47	5800	0.13	700
HBWS1608-6N8	6.8	B,J,K	30	250	63	5800	0.11	700
HBWS1608-8N2	8.2	B,J,K	30	250	72	4600	0.10	700
HBWS1608-10N	10	G,J,K	30	250	66	3800	0.13	700
HBWS1608-12N	12	G,J,K	35	250	72	4000	0.13	700
HBWS1608-15N	15	G,J,K	35	250	68	4000	0.17	700
HBWS1608-18N	18	G,J,K	38	250	77	3100	0.17	700
HBWS1608-22N	22	G,J,K	38	250	70	3000	0.22	700
HBWS1608-27N	27	G,J,K	40	250	75	2800	0.22	600
HBWS1608-33N	33	G,J,K	43	250	78	2300	0.22	600
HBWS1608-39N	39	G,J,K	43	250	66	2200	0.25	600
HBWS1608-47N	47	G,J,K	40	200	65	2000	0.28	600
HBWS1608-56N	56	G,J,K	40	200	66	1900	0.31	600
HBWS1608-68N	68	G,J,K	40	200	57	1700	0.34	600
HBWS1608-72N	72	G,J,K	35	150	60	1700	0.49	400
HBWS1608-82N	82	G,J,K	35	150	58	1700	0.54	400
HBWS1608-R10	100	G,J,K	35	150	51	1400	0.63	400
HBWS1608-R12	120	G,J,K	35	150	45	1300	0.65	300
HBWS1608-R15	150	G,J,K	35	150	33	1000	0.92	280
HBWS1608-R18	180	G,J,K	30	100	26	1000	1.25	240
HBWS1608-R22	220	G,J,K	30	100	23	1000	1.70	200
HBWS1608-R27	270	G,J,K	30	100	10	1000	1.80	170

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Electrical Characteristics 電氣特性

Size (尺寸): 2012 (0805)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			
HBWS2012-2N2	2.2	B,S	50	250	1000	6000	0.06	800
HBWS2012-2N7	2.7	B,S	35	250	1000	6000	0.08	800
HBWS2012-3N3	3.3	B,S	60	250	1000	6000	0.08	800
HBWS2012-3N9	3.9	B,S	60	250	1000	6000	0.06	600
HBWS2012-4N7	4.7	B,S	60	250	1000	5800	0.06	600
HBWS2012-5N6	5.6	B,J,K	60	250	1000	5800	0.08	600
HBWS2012-6N8	6.8	B,J,K	60	250	1000	5500	0.06	600
HBWS2012-8N2	8.2	B,J,K	60	250	1000	5500	0.06	600
HBWS2012-10N	10	G,J,K	60	250	500	4800	0.08	600
HBWS2012-12N	12	G,J,K	60	250	500	4100	0.08	600
HBWS2012-15N	15	G,J,K	60	250	500	3600	0.08	600
HBWS2012-18N	18	G,J,K	60	250	500	3400	0.08	600
HBWS2012-22N	22	G,J,K	60	250	500	3300	0.10	600
HBWS2012-27N	27	G,J,K	60	250	500	2600	0.12	600
HBWS2012-33N	33	G,J,K	60	250	500	2400	0.15	500
HBWS2012-39N	39	G,J,K	60	250	500	2100	0.18	500
HBWS2012-47N	47	G,J,K	60	200	500	1700	0.15	500
HBWS2012-56N	56	G,J,K	60	200	500	1600	0.25	500
HBWS2012-68N	68	G,J,K	60	200	500	1450	0.27	500
HBWS2012-82N	82	G,J,K	60	150	500	1350	0.32	500
HBWS2012-R10	100	G,J,K	60	150	500	1200	0.43	500
HBWS2012-R12	120	G,J,K	60	150	250	1100	0.48	500
HBWS2012-R15	150	G,J,K	50	100	250	950	0.56	400

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Size (尺寸): 2012 (0805)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			
HBWS2012-R18	180	G,J,K	50	100	250	900	0.78	400
HBWS2012-R22	220	G,J,K	50	100	250	860	1.00	400
HBWS2012-R27	270	G,J,K	45	100	250	850	1.46	350
HBWS2012-R33	330	G,J,K	45	100	250	800	1.65	300
HBWS2012-R39	390	G,J,K	45	100	250	780	2.20	210
HBWS2012-R47	470	J,K	45	25.2	100	375	0.95	500
HBWS2012-R56	560	J,K	45	25.2	100	340	1.10	450
HBWS2012-R68	680	J,K	35	25.2	100	188	1.20	400
HBWS2012-R82	820	J,K	35	25.2	100	215	1.50	300
HBWS2012-1R0	1000	J,K	35	25.2	50	200	2.13	180
HBWS2012-1R2	1200	J,K	15	7.96	7.96	200	2.38	150
HBWS2012-1R5	1500	J,K	15	7.96	7.96	200	2.90	130
HBWS2012-1R8	1800	J,K	15	7.96	7.96	120	3.00	120
HBWS2012-2R2	2200	J,K	15	7.96	7.96	110	3.10	110
HBWS2012-2R7	2700	J,K	15	7.96	7.96	100	3.50	100
HBWS2012-3R3	3300	J,K	15	7.96	7.96	70	2.30	210
HBWS2012-3R9	3900	J,K	15	7.96	7.96	60	2.50	200
HBWS2012-4R7	4700	J,K	15	7.96	7.96	50	2.80	180
HBWS2012-5R6	5600	J,K	15	7.96	7.96	45	3.00	160
HBWS2012-6R8	6800	J,K	15	7.96	7.96	45	3.20	130
HBWS2012-8R2	8200	J,K	15	7.96	7.96	40	3.50	120
HBWS2012-100	10000	J,K	15	2.52	2.52	40	5.00	80

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Electrical Characteristics 電氣特性

Size (尺寸): 2520 (1008)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			

HBWS2520-3N3	3.3	B,S	50	100	1000	6000	0.06	1000
HBWS2520-6N8	6.8	B,J,K	50	100	1000	5500	0.06	1000
HBWS2520-8N2	8.2	B,J,K	50	100	1000	5500	0.06	1000
HBWS2520-10N	10	G,J,K	50	100	1000	4300	0.08	1000
HBWS2520-12N	12	G,J,K	60	100	500	3600	0.08	1000
HBWS2520-15N	15	G,J,K	60	100	500	2700	0.08	1000
HBWS2520-18N	18	G,J,K	60	100	350	2700	0.10	1000
HBWS2520-22N	22	G,J,K	60	100	350	2500	0.10	1000
HBWS2520-27N	27	G,J,K	60	100	350	1800	0.10	1000
HBWS2520-33N	33	G,J,K	60	100	350	1700	0.10	1000
HBWS2520-39N	39	G,J,K	60	100	350	1500	0.10	1000
HBWS2520-47N	47	G,J,K	60	100	350	1500	0.10	1000
HBWS2520-56N	56	G,J,K	60	100	350	1350	0.12	1000
HBWS2520-68N	68	G,J,K	60	100	350	1300	0.15	1000
HBWS2520-82N	82	B,J,K	60	100	350	1100	0.18	1000
HBWS2520-R10	100	G,J,K	60	100	350	1100	0.18	1000
HBWS2520-R12	120	G,J,K	45	25	100	950	0.20	800
HBWS2520-R15	150	G,J,K	45	25	100	880	0.22	800
HBWS2520-R18	180	G,J,K	45	25	100	800	0.33	800
HBWS2520-R22	220	G,J,K	45	25	100	730	0.45	800
HBWS2520-R27	270	G,J,K	45	25	100	650	0.75	600
HBWS2520-R33	330	G,J,K	45	25	100	570	0.90	500
HBWS2520-R39	390	G,J,K	45	25	100	530	1.06	470
HBWS2520-R47	470	G,J,K	45	25	100	480	1.17	420

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Electrical Characteristics 電氣特性

Size (尺寸): 2520 (1008)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)	Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
HBWS2520-R56	560	G,J,K	45	25	100	430	310
HBWS2520-R68	680	G,J,K	45	25	100	380	230
HBWS2520-R75	750	G,J,K	45	25	100	360	200
HBWS2520-R82	820	G,J,K	45	25	100	350	180
HBWS2520-R91	910	G,J,K	45	25	100	330	150
HBWS2520-1R0	1000	G,J,K	35	25	50	310	120

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Electrical Characteristics 電氣特性

Size (尺寸): 2520 (1008)

Part Number 產品料號	Inductance 感值 (μ H)	Tolerance 公差	Q 品質 系數 Min.	L/Q Test Freq. 測試頻率 (MHz)	Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
HBWS2520-1R2	1.2	J,K	20	7.96	280	1.30	230
HBWS2520-1R5	1.5	J,K	20	7.96	250	1.65	220
HBWS2520-1R8	1.8	J,K	20	7.96	200	2.20	210
HBWS2520-2R2	2.2	J,K	20	7.96	160	2.35	200
HBWS2520-2R7	2.7	J,K	20	7.96	130	2.60	195
HBWS2520-3R3	3.3	J,K	20	7.96	80	2.85	185
HBWS2520-3R9	3.9	J,K	20	7.96	50	4.00	180
HBWS2520-4R7	4.7	J,K	20	7.96	45	4.30	175
HBWS2520-5R6	5.6	J,K	20	7.96	42	2.60	170
HBWS2520-6R8	6.8	J,K	20	7.96	39	2.80	165
HBWS2520-8R2	8.2	J,K	20	7.96	36	3.05	160
HBWS2520-100	10	J,K	15	2.52	33	3.50	150
HBWS2520-120	12	J,K	15	2.52	30	3.60	140
HBWS2520-150	15	J,K	15	2.52	26	4.00	130
HBWS2520-180	18	J,K	15	2.52	24	4.50	120
HBWS2520-220	22	J,K	15	2.52	22	4.80	110
HBWS2520-270	27	J,K	15	2.52	21	5.30	95
HBWS2520-330	33	J,K	15	2.52	20	6.10	85
HBWS2520-390	39	J,K	15	2.52	18	8.30	60
HBWS2520-470	47	J,K	15	2.52	17	12.00	45

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Electrical Characteristics 電氣特性

Size (尺寸):3225 (1210)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			
HBWS3225-4N7	4.7	B,S	50	100	1000	6000	0.06	1000
HBWS3225-5N6	5.6	B,J,K	50	100	1000	5500	0.08	1000
HBWS3225-10N	10	G,J,K	60	100	500	4000	0.06	1000
HBWS3225-12N	12	G,J,K	60	100	500	3400	0.06	1000
HBWS3225-15N	15	G,J,K	60	100	500	3200	0.06	1000
HBWS3225-18N	18	G,J,K	60	100	300	2800	0.06	1000
HBWS3225-22N	22	G,J,K	60	100	300	2300	0.08	1000
HBWS3225-27N	27	G,J,K	60	100	300	2000	0.08	1000
HBWS3225-33N	33	G,J,K	60	100	300	1800	0.08	1000
HBWS3225-39N	39	G,J,K	60	100	300	1800	0.08	1000
HBWS3225-47N	47	G,J,K	60	100	300	1600	0.08	1000
HBWS3225-56N	56	G,J,K	60	100	300	1500	0.10	1000
HBWS3225-68N	68	G,J,K	60	100	300	1300	0.10	1000
HBWS3225-82N	82	G,J,K	60	100	300	1200	0.10	1000
HBWS3225-R10	100	G,J,K	60	100	300	1100	0.10	1000
HBWS3225-R12	120	G,J,K	60	50	300	900	0.12	800
HBWS3225-R15	150	G,J,K	60	50	300	800	0.18	800
HBWS3225-R18	180	G,J,K	60	50	300	760	0.21	800
HBWS3225-R22	220	G,J,K	60	50	300	660	0.27	800
HBWS3225-R27	270	G,J,K	50	50	300	600	0.33	700
HBWS3225-R33	330	G,J,K	50	50	100	550	0.37	650
HBWS3225-R39	390	G,J,K	50	50	100	500	0.63	600
HBWS3225-R47	470	G,J,K	50	50	100	450	0.69	550
HBWS3225-R56	560	G,J,K	50	50	100	400	0.90	450
HBWS3225-R68	680	G,J,K	50	25	100	380	1.05	400
HBWS3225-R82	820	G,J,K	50	25	100	350	1.45	350
HBWS3225-1R0	1000	G,J,K	45	25	100	300	1.90	280
HBWS3225-1R2	1200	G,J,K	45	7.96	50	300	2.20	250

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Electrical Characteristics 電氣特性

Size (尺寸):3225 (1210)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			
HBWS3225-1R5	1500	G,J,K	45	7.96	50	250	2.43	220
HBWS3225-1R8	1800	G,J,K	45	7.96	50	200	3.36	180
HBWS3225-2R2	2200	G,J,K	40	7.96	50	200	3.50	150

Wire Wound Ceramic Chip Inductor

繞線式陶瓷晶片電感

HPWS Series for High Frequency

HPWS 系列適用於高頻

Electrical Characteristics 電氣特性

Size (尺寸): 1005 (0402)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 係數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			
HPWS1005-1N0	1.0	B,S	8	100	100	6000	0.06	400
HPWS1005-1N2	1.2	B,S	8	100	100	6000	0.06	400
HPWS1005-1N5	1.5	B,S	8	100	100	6000	0.07	400
HPWS1005-1N8	1.8	B,S	8	100	100	6000	0.08	400
HPWS1005-2N2	2.2	B,S	8	100	100	6000	0.09	400
HPWS1005-2N7	2.7	B,S	8	100	100	5500	0.1	400
HPWS1005-3N3	3.3	B,S	8	100	100	5500	0.12	400
HPWS1005-3N9	3.9	B,S	8	100	100	5200	0.15	360
HPWS1005-4N7	4.7	B,S	8	100	100	4800	0.17	360
HPWS1005-5N6	5.6	B,S	8	100	100	4600	0.19	340
HPWS1005-6N8	6.8	B,J	8	100	100	4600	0.30	320
HPWS1005-8N2	8.2	B,J	8	100	100	3500	0.35	320
HPWS1005-10N	10.0	G,J	8	100	100	2800	0.41	320
HPWS1005-12N	12.0	G,J	8	100	100	2800	0.41	320
HPWS1005-15N	15.0	G,J	8	100	100	2500	0.60	240
HPWS1005-18N	18.0	G,J	8	100	100	2200	0.70	240
HPWS1005-22N	22.0	G,J	8	100	100	2000	0.80	200
HPWS1005-27N	27.0	G,J	8	100	100	1800	1.20	200
HPWS1005-33N	33.0	G,J	8	100	100	1800	1.40	170
HPWS1005-39N	39.0	G,J	8	100	100	1800	1.70	150
HPWS1005-47N	47.0	G,J	8	100	100	1800	2.10	140
HPWS1005-56N	56.0	G,J	8	100	100	1500	2.50	130
HPWS1005-68N	68.0	G,J	8	100	100	1500	4.00	120
HPWS1005-82N	82.0	G,J	8	100	100	1400	4.50	110
HPWS1005-R10	100.0	G,J	8	100	100	1200	5.50	90

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Size (尺寸): 1608 (0603)

Part Number 產品料號	Inductance 感值 (nH)	Tolerance 公差	Q 品質 系數 Min.	Test Freq. 測試頻率 (MHz)		Self-resonant Frequency 共振頻率 (MHz) Min.	DC Resistance 直流電阻 (Ω) Max.	Rated Current 額定電流 (mA) Max.
				L	Q			
HPWS1608-1N0	1.0	S	7	100	100	6000	0.05	500
HPWS1608-1N2	1.2	S	7	100	100	6000	0.06	500
HPWS1608-1N5	1.5	S	8	100	100	6000	0.07	500
HPWS1608-1N8	1.8	S	8	100	100	6000	0.08	500
HPWS1608-2N2	2.2	S	8	100	100	6000	0.09	500
HPWS1608-2N7	2.7	S	8	100	100	6000	0.10	500
HPWS1608-3N3	3.3	S	9	100	100	5500	0.12	500
HPWS1608-3N9	3.9	J	9	100	100	5500	0.15	450
HPWS1608-4N7	4.7	J	9	100	100	4800	0.17	450
HPWS1608-5N6	5.6	J	9	100	100	4600	0.18	430
HPWS1608-6N8	6.8	J	9	100	100	3550	0.20	430
HPWS1608-8N2	8.2	J	9	100	100	3500	0.28	400
HPWS1608-10N	10.0	J	10	100	100	2800	0.32	400
HPWS1608-12N	12.0	J	10	100	100	2800	0.35	400
HPWS1608-15N	15.0	J	10	100	100	2500	0.41	350
HPWS1608-18N	18.0	J	10	100	100	2300	0.45	350
HPWS1608-22N	22.0	J	10	100	100	2000	0.50	300
HPWS1608-27N	27.0	J	10	100	100	2000	0.55	300
HPWS1608-33N	33.0	J	10	100	100	1800	0.60	300
HPWS1608-39N	39.0	J	11	100	100	1800	0.80	300
HPWS1608-47N	47.0	J	11	100	100	1800	0.95	250
HPWS1608-56N	56.0	J	12	100	100	1800	1.20	250
HPWS1608-68N	68.0	J	12	100	100	1500	1.30	250
HPWS1608-82N	82.0	J	12	100	100	1500	1.50	250
HPWS1608-R10	100.0	J	12	100	100	1300	1.80	200
HPWS1608-R12	120.0	J	5	25.2	25.2	1200	3.00	130

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				L	Q			
HPWS1608R15	150.0	J	4	25.2	25.2	1100	4.50	100
HPWS1608-R18	180.0	J	4	25.2	25.2	1000	6.50	80
HPWS1608-R22	220.0	J	4	25.2	25.2	900	7.50	70