

WHC Series

一体成型电感特性及应用

1. 磁屏蔽结构，磁路闭合，抗电磁干扰强 (EMI), 超低蜂鸣叫，可高密度安装。
2. 低损耗合金粉末压铸，低阻抗，无引线端头，寄生电容小。
3. 一体成型结构，坚实牢固，产品精准厚度、持久防锈。
4. 小体积、大电流，在高频和高温环境下仍保持优良的温升电流及饱和电流特性。
5. 选料考究，做工精细，工作频率覆盖范围广（可达 5MHz 以上）。
6. 拥有实用新型专利、外观设计专利、商标专利等多项自主知识产权。
7. 应用于工控主板、模显卡、平板电脑、笔记本电脑、车载设备、分配电源系统、DC/DC 转换器、LED 路灯设备、通讯设备、医疗设备等。

产品识别 Product Identification

WHC 0630 - 4R7 M - I
 (1) (2) (3) (4) (5)

(1) 产品类型: 贴片一体成型大电流 WHC 型

(2) 产品尺寸:

External Dimensions (L*W*H) [mm]	
WHC0420	4.0*4.5*2.0
WHC0624	6.6*7.6*2.4
WHC0630	6.6*7.6*3.0
WHC1040	10.0*11.0*4.0
WHC1050	10.0*11.0*5.0
WHC1240	12.8*13.2*4.0
WHC1250	12.8*13.2*5.0
WHC1265	12.8*13.2*6.5

(3) 电感值: Inductance 100 for 10uH

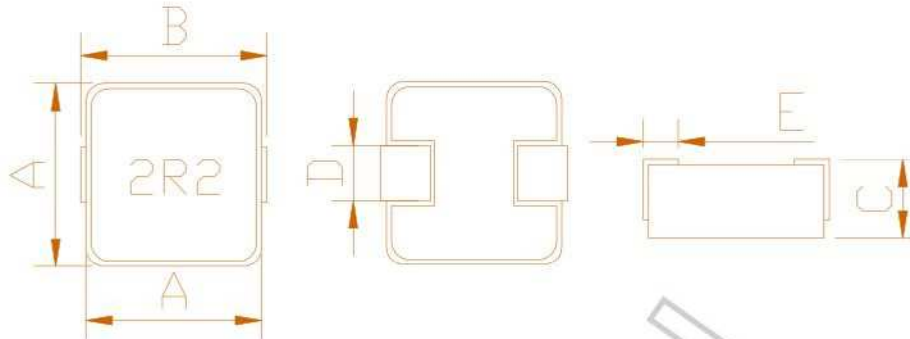
(4) 电感公差: Tolerance: “M” : ±20%; “L” : ±15%; “K” : ±10%

(5) 包装方式: “T” : 载带盘装

* Test Condition: 100KHz / 1.0V.

* Operating Temp.: -40°C ~ +125°C (Including self-generated heat)

外形和尺寸 Shape and Size



Unit:mm

Series	A	B	C	D	E
WHC0420	4.0±0.3	4.5MAX	2.0MAX	1.5±0.3	0.8±0.3
WHC0624	6.6±0.5	7.6MAX	2.4MAX	3.0±0.3	1.6±0.3
WHC0630	6.6±0.5	7.6MAX	3.0MAX	3.0±0.3	1.6±0.3
WHC1040	10.0±0.5	11.0±0.5	4.0MAX	3.0±0.5	2.0±0.5
WHC1050	10.0±0.5	11.0±0.5	5.0MAX	3.0±0.5	2.0±0.5
WHC1235	12.8±0.5	13.2±1.0	3.5MAX	3.5±0.5	2.5±0.5
WHC1250	12.8±0.5	13.2±1.0	5.0MAX	3.5±0.5	2.5±0.5
WHC1265	12.8±0.5	13.2±1.0	6.5MAX	3.5±0.5	2.5±0.5

WHC0420 TYPE

Part No.	Inductance L0 (μH±20%) @100kHz/1V0A	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC0420-R10M	0.10	3.5	4.0	12.0	22.0
WHC0420-R22M	0.22	6.1	7.0	9.0	14.0
WHC0420-R33M	0.33	8.9	11.0	8.0	12.0
WHC0420-R47M	0.47	12.6	14.0	7.0	9.5
WHC0420-R68M	0.68	19.0	21.0	5.5	8.0
WHC0420-R82M	0.82	20.1	23.0	5.0	7.5
WHC0420-1R0M	1.0	24.0	27.0	4.5	7.0
WHC0420-1R5M	1.5	36.4	45.0	3.8	6.5
WHC0420-2R2M	2.2	49.7	58.0	3.0	5.0

Part No.	Inductance L0 (μH±20%) @100KHz/1V0A	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC0420-3R3M	3.3	77.0	87.0	2.5	4.0
WHC0420-4R7M	4.7	103.4	120.0	2.2	3.0
WHC0420-5R6M	5.6	128.3	150.0	1.8	2.8
WHC0420-6R8M	6.8	166.8	190.0	1.5	2.5

WHC0624 TYPE

Part No.	Inductance L0 (μH±20%) @100KHz/1V0A	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC0624-R10M	0.10	1.2	1.4	30.0	50.0
WHC0624-R22M	0.22	3.2	3.6	20.0	32.0
WHC0624-R33M	0.33	3.7	4.1	18.0	31.0
WHC0624-R47M	0.47	5.2	6.0	14.0	28.0
WHC0624-R68M	0.68	8.3	9.5	11.0	23.0
WHC0624-R82M	0.82	10.4	12.0	10.0	17.0
WHC0624-1R0M	1.0	11.5	13.0	9.5	16.0
WHC0624-1R5M	1.5	15.2	18.0	8.5	14.0
WHC0624-2R2M	2.2	23.0	27.0	7.0	12.0
WHC0624-3R3M	3.3	34.8	40.0	5.5	10.0
WHC0624-4R7M	4.7	47.2	55.0	4.5	9.0
WHC0624-6R8M	6.8	67.5	78.0	3.8	8.0
WHC0624-8R2M	8.2	77.1	82.0	3.6	7.0
WHC0624-100M	10.0	96.7	110.0	3.2	5.5
WHC0624-150M	15.0	153.2	175.0	2.5	4.8

WHC0630 TYPE

Part No.	Inductance L0 (μH±20%) @100KHz/1V0A	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC0630-R10M	0.10	0.9	1.1	30.0	60.0
WHC0630-R22M	0.22	1.9	2.2	25.0	40.0
WHC0630-R33M	0.33	3.6	4.0	20.0	35.0
WHC0630-R47M	0.47	4.3	5.0	17.0	30.0

Part No.	Inductance L0 (μH±20%) @100KHz/1V0A	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC0630-R68M	0.68	5.3	6.0	15.0	26.0
WHC0630-1R0M	1.0	9.3	11.0	11.0	20.0
WHC0630-1R5M	1.5	13.8	16.0	9.0	18.0
WHC0630-2R2M	2.2	17.6	20.0	8.1	15.0
WHC0630-3R3M	3.3	27.5	30.0	6.5	13.0
WHC0630-4R7M	4.7	35.8	40.0	5.5	9.0
WHC0630-6R8M	6.8	55.4	63.0	4.5	7.5
WHC0630-8R2M	8.2	64.8	74.0	4.0	7.0
WHC0630-100M	10.0	81.3	92.0	3.5	6.5
WHC0630-150M	15.0	118.2	135.0	3.0	5.5
WHC0630-220M	22.0	135.0	150.0	2.7	4.0

WHC1040 TYPE

Part No.	Inductance L0 (μH±20%) @100KHz/1V0A	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC1040-R33M	0.33	1.0	1.2	32.0	60.0
WHC1040-R47M	0.47	1.6	1.8	26.0	55.0
WHC1040-R68M	0.68	2.5	2.7	22.0	48.0
WHC1040-1R0M	1.0	3.2	3.7	19.0	36.0
WHC1040-1R5M	1.5	4.5	5.2	16.0	30.0
WHC1040-2R2M	2.2	7.2	8.3	12.5	25.0
WHC1040-3R3M	3.3	9.5	11.0	11.0	21.0
WHC1040-4R7M	4.7	15.2	17.5	9.0	17.0
WHC1040-6R8M	6.8	21.9	25.0	7.5	14.0
WHC1040-100M	10.0	27.4	31.0	6.5	12.5
WHC1040-150M	15.0	48.7	56.0	4.8	9.5
WHC1040-220M	22.0	69.7	80.0	4.0	8.0
WHC1040-330M	33.0	109.7	125.0	3.2	6.0
WHC1040-470M	47.0	138.2	160.0	2.8	5.2
WHC1040-680M	68.0	229.0	260.0	2.1	4.4
WHC1040-101M	100.0	339.7	380.0	1.7	3.8

WHC1240 TYPE

Part No.	Inductance L0 (μH±20%) @100KHz/1VOA	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC1240-R33M	0.33	1.1	1.4	40.0	66.0
WHC1240-R47M	0.47	1.7	2.1	32.0	62.0
WHC1240-R68M	0.68	2.1	2.5	29.0	56.0
WHC1240-1R0M	1.0	2.7	3.1	26.0	42.0
WHC1240-1R5M	1.5	3.7	4.3	22.0	35.0
WHC1240-2R2M	2.2	6.5	7.6	16.5	28.0
WHC1240-3R3M	3.3	8.7	10.0	14.5	24.0
WHC1240-4R7M	4.7	13.3	15.5	11.5	20.0
WHC1240-6R8M	6.8	18.3	22.0	9.5	17.0
WHC1240-100M	10.0	29.8	35.0	7.5	14.0
WHC1240-150M	15.0	45.0	52.0	6.0	12.0
WHC1240-220M	22.0	64.3	74.0	5.0	9.0
WHC1240-330M	33.0	85.2	98.0	4.2	7.5
WHC1240-470M	47.0	129.0	150.0	3.4	6.0
WHC1240-680M	68.0	170.9	195.0	2.8	5.0

WHC1250 TYPE

Part No.	Inductance L0 (μH±20%) @100KHz/1VOA	DC resistance (mΩ)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC1250-R33M	0.33	0.93	1.2	40.0	74.0
WHC1250-R47M	0.47	1.1	1.4	38.0	68.0
WHC1250-R68M	0.68	1.3	1.6	37.0	63.0
WHC1250-1R0M	1.0	2.1	2.5	29.0	49.0
WHC1250-1R5M	1.5	3.1	3.6	24.5	44.0
WHC1250-2R2M	2.2	4.1	4.8	21.0	33.0
WHC1250-3R3M	3.3	5.4	6.3	18.5	27.0
WHC1250-4R7M	4.7	9.2	10.5	14.0	23.0
WHC1250-6R8M	6.8	14.1	17.0	11.0	19.0
WHC1250-100M	10.0	19.0	22.0	9.5	16.5
WHC1250-150M	15.0	32.8	38.0	7.0	13.5
WHC1250-220M	22.0	44.8	52.0	6.0	9.5
WHC1250-330M	33.0	63.9	74.0	5.0	8.0
WHC1250-470M	47.0	95.3	110.0	4.0	7.0
WHC1250-680M	68.0	144.2	165.0	3.3	6.0

WHC1265 TYPE

Part No.	Inductance L0 (μ H \pm 20%) @100KHz/1V0A	DC resistance ($m\Omega$)		Heat Rating Current DC Amps.	Saturation Current DC Amps.
		Typical	Maximum	IDC (A)	Isat (A)
WHC1265-R68M	0.68	1.1	1.4	38.0	66.0
WHC1265-1R0M	1.0	1.6	2.0	34.0	54.0
WHC1265-2R2M	2.2	3.6	4.3	22.0	38.0
WHC1265-3R3M	3.3	4.8	5.7	19.0	27.0
WHC1265-4R7M	4.7	6.1	7.2	17.0	24.0
WHC1265-6R8M	6.8	9.1	11.0	14.0	20.5
WHC1265-100M	10.0	15.0	18.0	11.0	17.0
WHC1265-220M	22.0	32.7	38.0	7.0	10.5
WHC1265-330M	33.0	46.5	53.0	6.0	8.5
WHC1265-470M	47.0	63.1	72.0	5.0	7.5
WHC1265-680M	68.0	105.1	120.0	3.8	6.0
WHC1265-101M	100.0	150.4	170.0	3.0	5.0

