产品规格书
SPECIFICATION FOR APPROVAL

产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

客户名称 Customer	:	
客户编码 Customer P/N	:	
产品系列 Series	:	一体成型电感 SMD Molding Inductor
产品编码 Supplly P/N	:	WH Series
版本号 Version	:	A3.0
承认日期 Endorsement Date	:	2021-8-25
备注 Note	:	

苏州沃虎电子科技有限公司 SuZhou Voohu Electronic Technology Co., Ltd.	
制作 APPROVED	Geoffrey.Song
审查 CHECKED	Elvis.Song
确认 PREPARED	Sunny.Xu

客户确认 Customer Approval
客户盖章 Customer Stamp

沃虎 VOOHU
苏州沃虎电子科技有限公司
SuZhou Voohu Electronic Technology Co., Ltd.
江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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修订记录
REVISION RECORD

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Version	REVISON ITEM	BEFORE REVISON	AFTER REVISON	DATE
A3.0	First Version			2021-8-25

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江苏省苏州市吴江区阿尔法公馆A栋5F
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封装尺寸
Dimension

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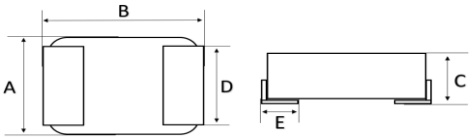
编码解释
Code interpretation

WHAA	0402	1R0	-	M	ANP
类别码	尺寸系列	系列码		公差	标识码
Category code	Dimension	Inductance		Tolerance	Other's code

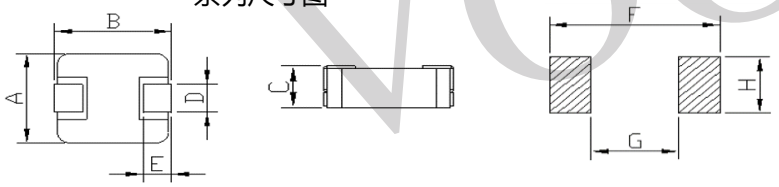
封装尺寸 Dimension (mm)

推荐的焊盘尺寸 Recommaned Land Pattern

WHAA20xxxx/1770/2213
系列尺寸图



WHAA(C)0410~1265
系列尺寸图



系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern			最小包装 MPQ
	A	B	C	D	E	F	G	H	
201610	2.0±0.2	1.6±0.2	1.0MAX	*	0.5±0.3	2.0Typ	0.9Typ	1.6Typ	3000pcs/卷盘
252010	2.5±0.2	2.0±0.2	1.0MAX	*	0.6±0.3	2.8Typ	1.2Typ	2.0Typ	3000pcs/卷盘
252012	2.5±0.2	2.0±0.2	1.2MAX	*	0.6±0.3	2.8Typ	1.2Typ	2.0Typ	3000pcs/卷盘
0410	4.1±0.20	4.1±0.20	1.0MAX	1.8±0.2	0.8±0.5	4.4Typ	2.2Typ	2.2Typ	5000pcs/卷盘
0412	4.2±0.25	4.4±0.35	1.2MAX	2.0±0.5	0.8±0.5	4.95Typ	2.15Typ	2.3Typ	3000pcs/卷盘
0402	4.05±0.25	4.45±0.25	2.0MAX	2.0±0.5	0.8±0.5	4.95Typ	2.15Typ	2.3Typ	2000pcs/卷盘
0518	5.2±0.3	5.4±0.3	1.8MAX	2.2±0.3	1.2±0.3	5.99Typ	2.2Typ	2.5Typ	2000pcs/卷盘
0502	5.2±0.3	5.4±0.3	2.0MAX	2.2±0.5	1.2±0.3	5.99Typ	2.2Typ	2.5Typ	2000pcs/卷盘
0503	5.2±0.3	5.4±0.3	3.0MAX	2.2±0.3	1.2±0.3	5.99Typ	2.2Typ	2.5Typ	2000pcs/卷盘
0610	6.1±0.3	6.1±0.3	1.0MAX	1.75±0.3	4.0±0.3	7.5Typ	2.8Typ	4.5Typ	3000pcs/卷盘
0618	6.6±0.3	7.1±0.3	1.8MAX	3.0±0.5	1.6±0.5	8.0Typ	3.7Typ	3.5Typ	2000pcs/卷盘
0602	6.6±0.3	7.1±0.3	2.0MAX	3.0±0.5	1.6±0.5	8.0Typ	3.7Typ	3.5Typ	2000pcs/卷盘
0624	6.6±0.3	7.1±0.3	2.4MAX	3.0±0.5	1.6±0.5	8.0Typ	3.7Typ	3.5Typ	1000pcs/卷盘
0603/063T	6.6±0.3	7.1±0.3	3.0MAX	3.0±0.5	1.6±0.5	8.0Typ	3.7Typ	3.5Typ	1000pcs/卷盘
0604	6.6±0.3	7.1±0.3	4.0MAX	3.0±0.5	1.6±0.5	8.0Typ	3.7Typ	3.5Typ	1000pcs/卷盘
0605	6.6±0.3	7.1±0.3	5.0MAX	3.0±0.5	1.6±0.5	8.0Typ	3.7Typ	3.5Typ	1000pcs/卷盘
0803	8.0±0.3	8.5±0.5	3.0MAX	3.0±0.3	1.8 ± 0.3	9.4 Typ	4.5 Typ	3.5 Typ	1000pcs/卷盘
0805	8.0±0.3	8.5±0.5	5.0MAX	3.0±0.3	1.8 ± 0.3	9.4 Typ	4.5 Typ	3.5 Typ	1000pcs/卷盘
1030	10.0±0.5	11.5±1.0	3.0MAX	3.0±0.5	2.5 ± 0.5	13.0 Typ	6.0 Typ	4.0 Typ	800pcs/卷盘
1040/1040X	10.0±0.5	11.5±1.0	4.0MAX	3.0±0.5	2.5 ± 0.5	13.0 Typ	6.0 Typ	4.0 Typ	800pcs/卷盘
1045	10.0±0.5	11.5±1.0	4.5MAX	3.0±0.5	2.5 ± 0.5	13.0 Typ	6.0 Typ	4.0 Typ	800pcs/卷盘
1050	10.0±0.5	11.5±1.0	5.0MAX	3.0±0.5	2.5 ± 0.5	13.0 Typ	6.0 Typ	4.0 Typ	800pcs/卷盘
1250	12.8±0.5	13.2±1.0	5.0MAX	3.5±0.5	2.5±0.5	15.0Typ	6.0Typ	5.0Typ	500pcs/卷盘
1265	12.8±0.5	13.2±1.0	6.5MAX	3.5±0.5	2.5±0.5	15.0Typ	6.0Typ	5.0Typ	500pcs/卷盘
1770	17.15MAX	17.50±1.0	7.0MAX	11.94±0.3	2.50±0.5	18Typ	11.7Typ	13Typ	300pcs/卷盘
2213	22.0±0.5	22.5±0.5	13.0Max	18.6±0.3	5.0±0.5	29Typ	5.8Typ	22Typ	100pcs/卷盘

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201610 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHBL201610P-R24M-AU	0.24	20%	17	21	5.0	5.6
WHBL201610P-R33M-AU	0.33	20%	24	29	4.1	5.0
WHBL201610P-R47M-AU	0.47	20%	33	40	3.5	4.4
WHBL201610P-R68M-AU	0.68	20%	41	49	3.4	3.7
WHBL201610P-1R0M-AU	1.00	20%	60	69	2.6	2.9
WHBL201610P-1R5M-AU	1.50	20%	114	129	2.0	2.5
WHBL201610P-2R2M-AU	2.20	20%	135	150	1.7	1.9

252010~252012 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHBL252010P-R22M-AU	0.22	20%	9	12.5	5.9	7.9
WHBL252010P-R33M-AU	0.33	20%	21	26	4.4	6.6
WHBL252010P-R47M-AU	0.47	20%	27	32	3.9	5.0
WHBL252010P-R68M-AU	0.68	20%	37	44	3.4	4.3
WHBL252010P-1R0M-AU	1.00	20%	45	54	3.0	3.5
WHBL252010P-1R5M-AU	1.50	20%	76	91	2.5	2.6
WHBL252010P-2R2M-AU	2.20	20%	99	119	2.3	2.4
WHBL252010P-4R7M-AU	4.70	20%	220	262	1.4	1.8
WHBL252012P-R68M-AU	0.68	20%	29	35	3.7	5.0
WHBL252012P-1R0M-AU	1.00	20%	41	49	3.5	4.4
WHBL252012P-1R5M-AU	1.50	20%	64	77	2.5	3.2
WHBL252012P-2R2M-AU	2.20	20%	85	98	2.3	3.0
WHBL252012P-4R7M-AU	4.70	20%	196	235	1.6	1.9

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0410~0412 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0410-2R2M-ANP	2.2	20%	90	100	3.4	4.3
WHAA0410-4R7M-ANP	4.7	20%	144	160	2.6	2.5
WHAA0410-100M-ANP	10	20%	302	336	1.5	1.8
WHAA0412-R15M-ANP	0.15	20%	7	9	7.5	15
WHAA0412-R22M-ANP	0.22	20%	9	11	7	11
WHAA0412-R33M-ANP	0.33	20%	17	19	6.5	8.4
WHAA0412-R47M-ANP	0.47	20%	19	21	6	6.8
WHAA0412-R68M-ANP	0.68	20%	32	36	4.7	6
WHAA0412-1R0M-ANP	1.0	20%	43	70	4.5	5.5
WHAA0412-1R5M-ANP	1.5	20%	68	75	3.3	4
WHAA0412-2R2M-ANP	2.2	20%	79	83.5	2.8	3.5
WHAA0412-4R7M-ANP	4.7	20%	170	195	1.8	2.5

0402 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0402-R10M-ANP	0.1	20%	3.5	4	12	22
WHAA0402-R22M-ANP	0.22	20%	6	6.6	9	12.5
WHAA0402-R33M-ANP	0.33	20%	9.6	13	8	12
WHAA0402-R47M-ANP	0.47	20%	12.5	14	7	9.5
WHAA0402-R56M-ANP	0.56	20%	14	16	6.5	10
WHAA0402-R68M-ANP	0.7	20%	16	18	6	9
WHAA0402-1R0M-ANP	1.0	20%	24	27	4.5	7
WHAA0402-1R2M-ANP	1.2	20%	24	27	4.5	7
WHAA0402-1R5M-ANP	1.5	20%	38	46	4	6
WHAA0402-2R2M-ANP	2.2	20%	52	58	3	5
WHAA0402-3R3M-ANP	3.3	20%	74	87	2.5	4
WHAA0402-4R7M-ANP	4.7	20%	98	110	2	3.5
WHAA0402-6R8M-ANP	6.8	20%	160	175	1.5	2.5
WHAA0402-8R2M-ANP	8.2	20%	170	185	2	2.5
WHAA0402-100M-ANP	10.0	20%	256	282	1.2	2.2

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0518 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0518-R33M-ANP	0.33	20%	7.7	8.6	11	15
WHAA0518-R47M-ANP	0.47	20%	10	11.3	10	14
WHAA0518-R56M-ANP	0.56	20%	11	13	9.5	13.5
WHAA0518-R68M-ANP	0.68	20%	12	14.3	9	13
WHAA0518-1R0M-ANP	1	20%	15	25	6.8	10
WHAA0518-1R5M-ANP	1.5	20%	23	28	6	9
WHAA0518-2R2M-ANP	2.2	20%	30	35	4.5	7
WHAA0518-3R3M-ANP	3.3	20%	45	52	3.5	5
WHAA0518-4R7M-ANP	4.7	20%	70	81	3	4.5
WHAA0518-5R6M-ANP	5.6	20%	114	127	2.5	4
WHAA0518-6R8M-ANP	6.8	20%	123	137	2.4	3.5
WHAA0518-8R2M-ANP	8.2	20%	148	165	2.3	3
WHAA0518-100M-ANP	10.0	20%	171	190	2.3	2.8

0502 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0502-R10M-ANP	0.10	20%	2.1	2.6	15.0	23.0
WHAA0502-R22M-ANP	0.22	20%	4.4	5.3	13.0	22.0
WHAA0502-R33M-ANP	0.33	20%	6.5	7.3	12.0	21.3
WHAA0502-R47M-ANP	0.47	20%	10.5	8.6	11.5	18.0
WHAA0502-R68M-ANP	0.68	20%	11.0	12.4	10.0	12.8
WHAA0502-1R0M-ANP	1.00	20%	17.0	19.2	7.0	11.7
WHAA0502-1R2M-ANP	1.20	20%	25.0	28.0	6.2	11.0
WHAA0502-2R2M-ANP	2.20	20%	42.0	50.0	4.2	9.0
WHAA0502-3R3M-ANP	3.30	20%	58.0	70.0	3.3	7.3
WHAA0502-4R7M-ANP	4.70	20%	90.0	106.0	2.8	5.0
WHAA0502-5R6M-ANP	5.60	20%	103.0	122.0	2.5	4.2
WHAA0502-6R8M-ANP	6.80	20%	114.0	145.0	2.4	3.8
WHAA0502-8R2M-ANP	8.20	20%	134.0	168.0	2.3	3.5
WHAA0502-100M-ANP	10.00	20%	151.0	189.0	2.3	3.4

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0503 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0503-R33M-ANP	0.33	20%	4.2	5.0	14.0	18.0
WHAA0503-R47M-ANP	0.47	20%	7.4	7.4	12.0	16.0
WHAA0503-R68M-ANP	0.68	20%	11.0	13.0	8.0	14.0
WHAA0503-1R0M-ANP	1.00	20%	13.0	15.0	7.0	11.0
WHAA0503-1R5M-ANP	1.50	20%	20.0	25.0	6.0	8.5
WHAA0503-2R2M-ANP	2.20	20%	25.0	35.0	5.5	7.5
WHAA0503-3R3M-ANP	3.30	20%	32.0	38.0	5.0	6.0
WHAA0503-4R7M-ANP	4.70	20%	50.0	70.0	4.0	5.0
WHAA0503-6R8M-ANP	6.80	20%	75.0	100.0	3.5	4.0
WHAA0503-8R2M-ANP	8.20	20%	100.0	130.0	3.0	4.0
WHAA0503-100M-ANP	10.00	20%	110.0	145.0	2.5	3.5
WHAA0503-150M-ANP	15.00	20%	192.0	215.0	2.0	3.0
WHAA0503-220M-ANP	22.00	20%	230.0	275.0	1.5	2.5

0610~0618 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0610-4R7M-ANP	4.7	20%	154	172	2.2	2.8
WHAA0610-6R8M-ANP	6.8	20%	177	197	2	2.5
WHAA0610-100M-ANP	10	20%	549	310	1.6	2.1
WHAA0618-R22M-ANP	0.22	20%	5.3	5.7	14.0	26.0
WHAA0618-R33M-ANP	0.33	20%	6.6	7.0	12.0	18.0
WHAA0618-R47M-ANP	0.47	20%	8.4	9.3	11.0	18.0
WHAA0618-R68M-ANP	0.68	20%	12.7	13.9	9.0	17.0
WHAA0618-R82M-ANP	0.82	20%	13.8	15.9	8.0	17.0
WHAA0618-1R0M-ANP	1.00	20%	17.5	18.3	7.0	14.0
WHAA0618-1R5M-ANP	1.50	20%	32.6	34.0	4.0	11.5
WHAA0618-2R2M-ANP	2.20	20%	40.3	46.0	3.8	11.0
WHAA0618-3R3M-ANP	3.30	20%	56.2	60.1	3.3	10.0
WHAA0618-4R7M-ANP	4.70	20%	76.6	78.0	3.0	8.0

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苏州沃虎电子科技有限公司
SuZhou Voohu Electronic Technology Co., Ltd.
江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

0602 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0602H-R10M-ANP	0.10	20%	2.5	3.5	16.0	30.0
WHAA0602H-R33M-ANP	0.33	20%	5.6	6.8	13.0	24.0
WHAA0602H-R47M-ANP	0.47	20%	6.4	8.0	10.0	22.0
WHAA0602H-R68M-ANP	0.68	20%	10.0	12.7	7.5	14.0
WHAA0602H-1R0M-ANP	1.00	20%	16.0	19.2	7.0	12.0
WHAA0602H-1R5M-ANP	1.50	20%	26.0	32.0	5.5	10.0
WHAA0602H-2R2M-ANP	2.20	20%	32.0	36.0	5.0	9.0
WHAA0602H-3R3M-ANP	3.30	20%	65.0	78.0	4.5	7.0
WHAA0602H-4R7M-ANP	4.70	20%	73.0	88.0	3.5	5.0
WHAA0602H-6R8M-ANP	6.80	20%	114.0	140.0	3.0	4.0
WHAA0602H-100M-ANP	10.00	20%	147.0	180.0	2.0	3.5

0624 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0624H-R22M-ANP/F	0.22	20%	1.7	3.2	12.0	21.0
WHAA0624H-R47M-ANP/F	0.47	20%	4.0	6.5	10.0	18.0
WHAA0624H-R68M-ANP/F	0.68	20%	6.0	9.4	9.0	16.0
WHAA0624H-1R0M-ANP/F	1.00	20%	9.0	12.0	8.0	13.0
WHAA0624H-2R2M-ANP/F	2.20	20%	22.0	34.0	6.0	10.0
WHAA0624H-3R3M-ANP/F	3.30	20%	29.0	35.0	5.0	9.0
WHAA0624H-4R7M-ANP/F	4.70	20%	41.0	50.0	5.0	8.0
WHAA0624H-6R8M-ANP/F	6.80	20%	52.0	72.0	3.0	6.0
WHAA0624H-100M-ANP/F	10.00	20%	82.0	106.0	2.0	4.0
WHAA0624H-150M-ANP/F	15.00	20%	112.0	135.0	1.5	3.0

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江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

0603 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0603-R22M-ANP/F	0.22	20%	2.5	2.8	23.0	40.0
WHAA0603-R33M-ANP/F	0.33	20%	3.5	3.9	20.0	30.0
WHAA0603-R47M-ANP/F	0.47	20%	4.0	4.2	17.5	26.0
WHAA0603-R68M-ANP/F	0.68	20%	5.0	5.5	15.5	25.0
WHAA0603-R82M-ANP/F	0.82	20%	6.7	8.0	13.0	24.0
WHAA0603-1R0M-ANP/F	1.00	20%	9.0	10.0	11.0	22.0
WHAA0603-1R5M-ANP/F	1.50	20%	14.0	15.0	9.0	18.0
WHAA0603-2R2M-ANP/F	2.20	20%	18.0	20.0	8.0	14.0
WHAA0603-3R3M-ANP/F	3.30	20%	28.0	30.0	6.0	13.5
WHAA0603-4R7M-ANP/F	4.70	20%	37.0	40.0	5.5	10.0
WHAA0603-6R8M-ANP/F	6.80	20%	54.0	60.0	4.5	8.0
WHAA0603-8R2M-ANP/F	8.20	20%	70.0	90.0	4.0	7.5
WHAA0603-100M-ANP/F	10.00	20%	102.0	105.0	3.0	7.0
WHAA063T-100M-ANP/F	10.00	20%	62.0	68.0	4.0	5.5
WHAA063T-150M-ANP/F	15.00	20%	112.0	135.0	3.0	3.5
WHAA063T-220M-ANP/F	22.00	20%	120.0	150.0	2.0	3.5
WHAA063H-330M-ANP/F	33.00	20%	210.0	250.0	1.5	2.5
WHAA063H-470M-ANP/F	47.00	20%	344.0	412.0	1.5	2.5

0604 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0604H-R47M-ANP	0.47	20%	3.0	3.6	15.0	26.0
WHAA0604H-R68M-ANP	0.68	20%	4.8	5.8	10.0	18.0
WHAA0604H-1R0M-ANP	1.00	20%	5.5	6.6	9.0	17.0
WHAA0604H-1R5M-ANP	1.50	20%	7.0	10.8	8.0	13.0
WHAA0604H-2R2M-ANP	2.20	20%	10.0	13.0	7.0	12.0
WHAA0604H-3R3M-ANP	3.30	20%	13.5	18.0	6.5	11.0
WHAA0604H-4R7M-ANP	4.70	20%	20.0	24.0	6.0	9.0
WHAA0604H-6R8M-ANP	6.80	20%	41.0	49.0	5.0	8.0
WHAA0604H-100M-ANP	10.00	20%	58.0	70.0	3.5	6.5
WHAA0604H-150M-ANP	15.00	20%	64.0	77.0	3.0	5.5
WHAA0604H-220M-ANP	22.00	20%	98.0	117.0	2.5	4.0
WHAA0604H-330M-ANP	33.00	20%	163.0	196.0	2.0	3.5

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江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

0605 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0605H-R47M-ANP	0.47	20%	2.9	3.9	14.0	24.0
WHAA0605H-R68M-ANP	0.68	20%	3.2	4.4	11.0	20.0
WHAA0605H-1R0M-ANP	1.00	20%	5.2	6.7	9.0	18.0
WHAA0605H-1R5M-ANP	1.50	20%	7.3	8.7	8.5	15.0
WHAA0605H-2R2M-ANP	2.20	20%	10.0	13.5	8.0	14.0
WHAA0605H-3R3M-ANP	3.30	20%	14.0	22.9	7.0	11.0
WHAA0605H-4R7M-ANP	4.70	20%	24.0	29.0	6.0	10.0
WHAA0605H-6R8M-ANP	6.80	20%	34.0	39.0	5.0	9.0
WHAA0605H-100M-ANP	10.00	20%	48.0	57.0	4.0	8.0
WHAA0605H-150M-ANP	15.00	20%	76.0	87.0	3.5	6.0
WHAA0605H-220M-ANP	22.00	20%	110.0	135.0	3.0	5.0
WHAA0605H-330M-ANP	33.00	20%	160.0	210.0	2.5	4.5
WHAA0605H-470M-ANP	47.00	20%	252.0	295.0	1.5	2.5

0803 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0803H-R22M-ANP	0.22	20%	1.68	2.0	28.0	36.0
WHAA0803H-R47M-ANP	0.47	20%	2.4	3.0	25.0	32.0
WHAA0803H-R68M-ANP	0.68	20%	3.5	4.5	20.0	25.0
WHAA0803H-1R0M-ANP	1.00	20%	4.8	5.5	13.0	18.0
WHAA0803H-1R5M-ANP	1.50	20%	6	8.0	10.0	14.0
WHAA0803H-2R2M-ANP	2.20	20%	10	13.0	8.5	11.0
WHAA0803H-3R3M-ANP	3.30	20%	15	17.0	7.5	9.0
WHAA0803H-4R7M-ANP	4.70	20%	28	32.0	6.8	8.0
WHAA0803H-5R6M-ANP	5.60	20%	33	37.0	5.8	7.0
WHAA0803H-6R8M-ANP	6.80	20%	43	48.0	5.2	6.0
WHAA0803H-100M-ANP	10.00	20%	54	60.0	4.8	6.5
WHAA0803H-150M-ANP	15.00	20%	95	106.0	4.0	5.0
WHAA0803H-220M-ANP	22.00	20%	121	135.0	3.0	3.5
WHAA0803H-330M-ANP	33.00	20%	189	210.0	2.5	3.0

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江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

0805 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA0805-R82M-ISP	0.82	20%	4.00	4.80	16.0	24.0
WHAA0805-1R0M-ISP	1.00	20%	4.20	5.00	14.0	21.0
WHAA0805-1R5M-ISP	1.50	20%	4.80	5.80	12.0	19.0
WHAA0805-2R2M-ISP	2.20	20%	7.50	9.00	11.0	18.0
WHAA0805-3R3M-ISP	3.30	20%	11.00	13.00	10.0	15.0
WHAA0805-4R7M-ISP	4.70	20%	16.00	20.00	8.0	14.0
WHAA0805-5R6M-ISP	5.60	20%	19.80	24.00	7.0	13.0
WHAA0805-6R8M-ISP	6.80	20%	20.00	24.00	6.0	11.0
WHAA0805-100M-ISP	10.00	20%	30.00	35.00	5.0	10.0
WHAA0805-150M-ISP	15.00	20%	46.00	55.00	4.0	7.5
WHAA0805-220M-ISP	22.00	20%	79.00	94.00	3.5	7.0
WHAA0805-330M-ISP	33.00	20%	125.00	150.00	3.0	5.0
WHAA0805-470M-ISP	47.00	20%	160.00	192.00	2.5	4.0
WHAA0805-560M-ISP	56.00	20%	170.00	205.00	2.0	3.5
WHAA0805-680M-ISP	68.00	20%	188.00	233.00	1.5	3.0
WHAA0805-101M-ISP	100.00	20%	272.00	326.00	1.2	2.0
WHAA0805-151M-ISP	150.00	20%	397.00	480.00	1.0	1.5

1031 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA1030-1R0M-ANP	1.00	20%	6.5	9.8	12.0	15.0

沃虎 VOOHU
苏州沃虎电子科技有限公司
SuZhou Voohu Electronic Technology Co., Ltd.
江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

1040 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAA1040H-R22M-ANP	0.22	20%	0.8	1.2	24.0	50.0
WHAA1040H-R36M-ANP	0.36	20%	1.0	1.5	22.0	40.0
WHAA1040H-R47M-ANP	0.47	20%	1.3	1.8	20.0	35.0
WHAA1040H-R56M-ANP	0.56	20%	1.5	2.5	18.0	30.0
WHAA1040H-R68M-ANP	0.68	20%	2.0	2.8	16.0	25.0
WHAA1040H-1R0M-ANP	1.00	20%	2.5	3.5	14.0	23.0
WHAA1040H-1R5M-ANP	1.50	20%	4.8	6.0	12.0	22.0
WHAA1040H-2R2M-ANP	2.20	20%	6.5	9.0	11.0	18.0
WHAA1040H-3R3M-ANP	3.30	20%	9.0	11.5	10.0	17.0
WHAA1040H-4R7M-ANP	4.70	20%	14.0	20.0	9.0	13.0
WHAA1040H-6R8M-ANP	6.80	20%	18.0	25.0	8.0	11.0
WHAA1040H-100M-ANP	10.00	20%	31.0	45.0	7.0	9.0
WHAA1040H-150M-ANP	15.00	20%	50.0	75.0	6.0	8.0
WHAA1040H-220M-ANP	22.00	20%	60.0	90.0	4.5	7.0
WHAA1040H-330M-ANP	33.00	20%	89.0	120.0	4.0	6.0
WHAA1040H-470M-ANP	47.00	20%	125.0	170.0	3.0	5.0
WHAA1040H-680M-ANP	68.00	20%	200.0	250.0	2.2	4.0

1040X Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAC1040X-R22M-ANP/F	0.22	20%	0.7	0.9	38.0	62.0
WHAC1040X-R36M-ANP/F	0.36	20%	0.7	0.8	33.0	53.0
WHAC1040X-R47M-ANP/F	0.47	20%	1.3	1.5	28.0	47.0
WHAC1040X-R56M-ANP/F	0.56	20%	1.3	1.5	27.0	43.0
WHAC1040X-R68M-ANP/F	0.68	20%	2	2.3	25.0	40.0
WHAC1040X-1R0M-ANP/F	1.00	20%	2.5	3.0	19.0	32.0
WHAC1040X-1R5M-ANP/F	1.50	20%	3.5	4.0	18.0	26.0
WHAC1040X-2R2M-ANP/F	2.20	20%	5.9	6.5	14.0	24.0
WHAC1040X-3R3M-ANP/F	3.30	20%	9.5	11.0	11.0	18.0
WHAC1040X-4R7M-ANP/F	4.70	20%	12.0	13.5	10.0	15.0
WHAC1040X-5R6M-ANP/F	5.60	20%	15.2	16.8	9.0	14.0
WHAC1040X-6R8M-ANP/F	6.80	20%	19.0	20.1	8.5	13.0
WHAC1040X-8R2M-ANP/F	8.20	20%	22.0	25.0	7.5	11.0
WHAC1040X-100M-ANP/F	10.00	20%	29.5	33.0	7.0	10.0
WHAC1040X-150M-ANP/F	15.00	20%	37.0	41.0	6.7	8.0
WHAC1040X-220M-ANP/F	22.00	20%	55.0	60.0	6.0	6.5
WHAC1040X-330M-ANP/F	33.00	20%	79.0	87.0	5.0	6.0
WHAC1040X-470M-ANP/F	47.00	20%	118.0	139.0	4.0	5.5

沃虎 VOOHU
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江苏省苏州市吴江区阿尔法公馆A栋5F
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产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

1045 1050 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAC1045H-220M-ANP	22.00	20%	60	72	4.0	6.0
WHAC1045H-470M-ANP	47.00	20%	136	164	3.5	4.5
WHAC1045H-680M-ANP	68.00	20%	155	230	2.5	4.5
WHAC1045H-101M-ANP	100.00	20%	250	300	2.0	4.0
WHAC1050H-1R0M-ANP	1.00	20%	2.3	3	16.0	28.0
WHAC1050H-2R2M-ANP	2.20	20%	5.2	7	12.0	20.0
WHAC1050H-8R2M-ANP	8.20	20%	23.5	35	6.5	12.0
WHAC1050H-100M-ANP	10.00	20%	29	35	6.0	12.0
WHAC1050H-220M-ANP	22.00	20%	60	72	4.5	8.0

1250 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAC1250H-R47M-ANP	0.47	20%	1	1.2	25.0	45.0
WHAC1250H-R68M-ANP	0.68	20%	1.2	1.6	23.0	38.0
WHAC1250H-1R0M-ANP	1.00	20%	1.7	2.2	22.0	36.0
WHAC1250H-1R5M-ANP	1.50	20%	2.6	2.6	16.0	32.0
WHAC1250H-2R2M-ANP	2.20	20%	5	3.1	15.0	30.0
WHAC1250H-3R3M-ANP	3.30	20%	6.3	6	14.0	26.0
WHAC1250H-4R7M-ANP	4.70	20%	7.5	7.6	12.0	24.0
WHAC1250H-6R8M-ANP	6.80	20%	12	9	12.0	18.0
WHAC1250H-100M-ANP	10.00	20%	19.5	14.4	8.0	13.0
WHAC1250H-150M-ANP	15.00	20%	26	24	7.0	11.0
WHAC1250H-220M-ANP	22.00	20%	29	31.2	5.0	9.0
WHAC1250H-330M-ANP	33.00	20%	32	48	4.0	8.0
WHAC1250H-470M-ANP	47.00	20%	38	82	3.0	7.0

沃虎 VOOHU
苏州沃虎电子科技有限公司
SuZhou Voohu Electronic Technology Co., Ltd.
江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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电气特性
ELECTRICAL CHARACTERISTICS

产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

1265~1770 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAC1265H-1R0M-ANP/F	1.00	20%	1.6	2.0	23.0	40.0
WHAC1265H-1R5M-ANP/F	1.50	20%	2.4	3.2	18.0	30.0
WHAC1265H-2R2M-ANP/F	2.20	20%	3.4	4.2	15.0	25.0
WHAC1265H-3R3M-ANP/F	3.30	20%	4.8	5.7	12.0	22.0
WHAC1265H-4R7M-ANP/F	4.70	20%	8.2	10.0	11.0	21.0
WHAC1265H-6R8M-ANP/F	6.80	20%	11.0	14.0	10.0	20.0
WHAC1265H-100M-ANP/F	10.00	20%	14.0	16.8	8.0	14.0
WHAC1265H-150M-ANP/F	15.00	20%	27.5	32.0	7.0	13.0
WHAC1265H-220M-ANP/F	22.00	20%	32.7	38.0	6.0	12.0
WHAC1265H-330M-ANP/F	33.0	20%	45.0	50.0	5.0	10.0
WHAC1265H-470M-ANP/F	47.0	20%	63.1	72.0	4.0	8.0
WHAC1265H-680M-ANP/F	68.0	20%	105.1	130.0	3.0	5.5
WHAC1265H-101M-ANP/F	100.0	20%	130.0	160.0	2.0	5.0
WHAC1770X-1R0M-IGP	1.0	20%	1.00	1.30	55.5	73.0
WHAC1770X-1R5M-IGP	1.5	20%	1.40	1.70	48.0	65.0
WHAC1770X-2R2M-IGP	2.2	20%	2.31	2.53	35.0	62.0
WHAC1770X-3R3M-IGP	3.3	20%	3.00	3.88	28.0	54.0
WHAC1770X-4R7M-IGP	4.7	20%	4.10	5.11	25.0	41.0
WHAC1770X-5R6M-IGP	5.6	20%	5.70	7.10	21.0	40.0
WHAC1770X-6R8M-IGP	6.8	20%	6.90	8.83	19.0	32.0
WHAC1770X-8R2M-IGP	8.2	20%	8.6	10.7	18.0	25.0
WHAC1770X-100M-IGP	10.0	20%	9.6	12.0	16.5	25.0
WHAC1770X-100M-CGP	10.0	20%	8.0	10.0	19.0	21.0
WHAC1770X-150M-IGP	15.0	20%	16.0	20.0	12.5	25.0
WHAC1770X-220M-IGP	22.0	20%	21.6	27.0	11.0	23.0
WHAC1770X-330M-IGP	33.0	20%	30.4	38.0	8.5	13.0
WHAC1770X-470M-IGP	47.0	20%	46.4	58.0	6.5	11.0
WHAC1770X-680M-IGP	68.0	20%	80.0	100.0	5.0	9.0
WHAC1770X-820M-IGP	82.0	20%	88.0	110.0	5.0	8.0
WHAC1770X-101M-IGP	100.0	20%	115.0	140.0	4.2	7.0
WHAC1770X-151M-ANP	150.0	20%	149.0	186.0	2.0	4.0
WHAC1770X-151M-CGP	150.0	20%	149.0	186.0	4.0	5.0

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江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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电气特性
ELECTRICAL CHARACTERISTICS

产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

2213 Series

产品编码 P/N	@ 25 ℃ Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	△T≈40℃	L0 drop≈30%
WHAC2213-1R5M-ANF	1.5	20%	1.00	1.15	52.0	62.0
WHAC2213-2R0M-ANF	2.0	20%	1.02	1.20	50.0	60.0
WHAC2213-2R2M-ANF	2.2	20%	1.05	1.25	48.0	58.0
WHAC2213-3R0M-ANF	3.0	20%	1.42	1.64	44.0	51.0
WHAC2213-3R3M-ANF	3.3	20%	1.50	1.75	41.0	49.0
WHAC2213-4R7M-ANF	4.7	20%	1.90	2.20	38.0	47.0
WHAC2213-6R8M-ANF	6.8	20%	2.70	3.10	36.0	40.0
WHAC2213-100M-ANF	10.0	20%	3.80	4.15	28.0	33.0
WHAC2213-220M-ANF	22.0	20%	9.20	11.00	15.0	22.0
WHAC2213-230M-ANF	23.0	20%	9.20	11.00	15.0	22.0
WHAC2213-330M-ANF	33.0	20%	13.50	15.40	12.0	19.0
WHAC2213-470M-ANF	47.0	20%	17.30	20.80	12.0	17.0
WHAC2213-680M-ANF	68.0	20%	26.20	29.50	12.0	14.0
WHAC2213-750M-ANF	75.0	20%	27.50	31.60	10.5	13.0
WHAC2213-820M-ANF	82.0	20%	31.00	34.20	9.0	12.0
WHAC2213-101M-ANF	100.0	20%	36.00	40.00	9.0	11.0

◎ 规格参数基于环境温度25℃取得
All test Data is referenced to 25°C ambient

◎ 电感工作环境温度：-25℃~125℃
Operating temperature range -25 °C to +125°C

◎ 加载温升电流（Irms）会使电感温度上升大约40℃（电感初始温度+上升温度=电感最终温度）
Typical Irms would cause an approximately △T of 40

◎ 加载饱和电流（ISAT）会使感量下降大约30%
Typical ISAT would cause Lo to drop approximately 30%.

◎ 额定电流取值温升电流与饱和电流二者最小值
The rated current is determined by the minimum value between IRMS and ISAT

◎ 务必考虑最终的产品设计，元器件布局，线路板走线，以及使用环境过程中，电感最终温度不得超过125℃
The operating temperature of inductance do not exceed 125°C

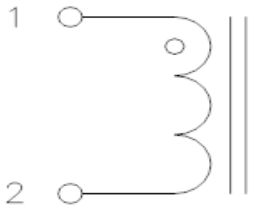
◎ 使用电感时，请查阅第20页注意事项
The announcements is on page 21

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苏州沃虎电子科技有限公司
SuZhou Voohu Electronic Technology Co., Ltd.
江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province
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特性
CHARACTERISTICS

产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

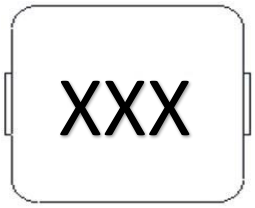
电路结构
Connections



◎ 电感内置一组线圈
Inductor Contents one (1) Set(s) of Coil

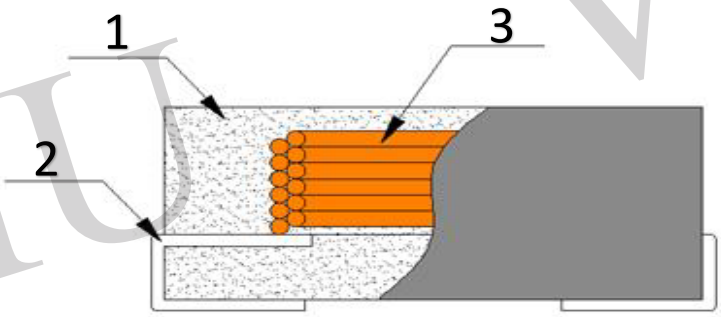
◎ 电感使用不需要区分正负方向
DC/AC Currnet Shall Be Introduced By Any One of Two Pads

印字方式
Marking



◎ 0410以下尺寸顶部不喷码印字
Size 201610~252012 series no marking

内部构造
Internal Structure

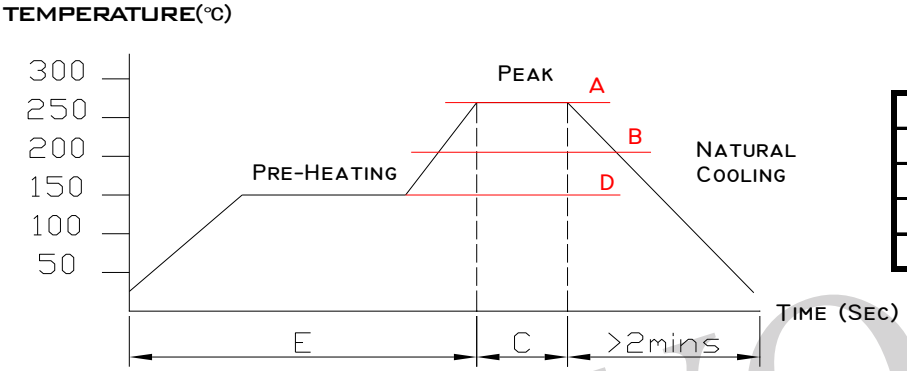


1: 磁芯/Core

2: 电极/Electrode

3: 线圈/coil

焊接温度（推荐）
Recommended Soldering Temperature Graph



A	260℃
B	230℃
C	10 Sec
D	150℃
E	60~240Sec

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江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

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可靠性试验
RELIABILITY TEST

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产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

机械可靠性测试
Mechanical Reliability

实验名称 ITEM	试验要求 Specification & Requirement	试验方法 Method Used
可焊性实验 Solderability	The surface of terminal/pin tested shall be covered with new solder by 95%	Solder heat proof: Preheating: 180 +10°C 90 seconds Soldering: 255 +5°C for 3 +1 sec
机械冲击 Shock	Inductance change within ± 5% Without mechanical damage SMD Molding Inductor	Drop down with 981m/s2 (100G) shock Attitude upon a rubber block method shock testing machinem, 3 tests.
振动实验 Vibration	Inductance change within ± 5% Without mechanical damage	Vibration frequency: 10Hz to 55Hz to 10Hz 60 seconds cycle Vibration time: 2 hours

老化测试
Aging Reliability

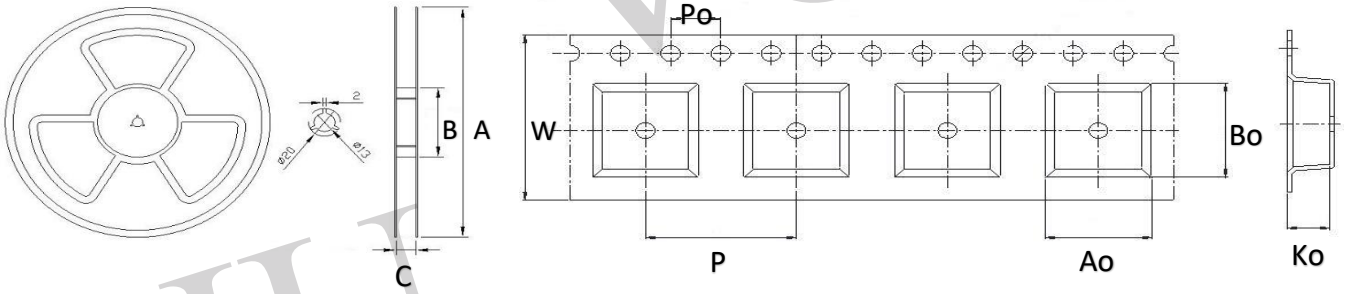
实验名称 ITEM	试验要求 Specification & Requirement	试验方法 Method Used
冷热冲击 Thermal Shock	Inductance change within ± 5% Without mechanical damage	-55°C, (30 mins) -> room temp. (5 mins) -> 125°C,(30 mins) -> room temp. (5 mins) 100 cycles
耐热性 Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @85°C ambient Duration: 1000 hrs
耐湿性 Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 1000 hrs
低温存储实验 Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -55 +2 °C for total 1,000 +4/-0 hours
高温存储实验 High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125 +2 °C for total 1,000 +4/-0 hours

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包装方式
PACKING FOR SMD

产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列 Series	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

载带卷盘尺寸：(mm)
Packing Dimension



系列 Series	A	B	C	W	P	Po	Ao	Bo	Ko
201610	178	58	8.5	8	4	4	2.1 Typ	1.7 Typ	1.1 Typ
252010	178	58	8.5	8	4	4	2.6 Typ	2.1 Typ	1.1 Typ
252012	178	58	8.5	8	4	4	2.6 Typ	2.1 Typ	1.3 Typ
0410	330	100	12	12	8	4	4.5 Typ	4.5 Typ	1.1 Typ
0412	330	100	12	12	8	4	4.3 Typ	4.7 Typ	1.8 Typ
0402	330	100	12	12	8	4	4.6 Typ	4.75 Typ	2.2 Typ
0518	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	2.2 Typ
0502	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	2.3 Typ
0503	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	3.6 Typ
0610	330	100	17	16	12	4	6.4 Typ	6.5 Typ	1.1 Typ
0618	330	100	17	16	12	4	6.9 Typ	7.6 Typ	2.0 Typ
0602	330	100	17	16	12	4	6.9 Typ	7.6 Typ	2.2 Typ
0624	330	100	17	16	12	4	6.9 Typ	7.6 Typ	3.0 Typ
0603/063T	330	100	17	16	12	4	6.9 Typ	7.6 Typ	3.2 Typ
0604	330	100	17	16	12	4	6.9 Typ	7.6 Typ	4.2 Typ
0605	330	100	17	16	12	4	6.9 Typ	7.6 Typ	5.4 Typ
0803	330	100	17	16	12	4	8.6 Typ	9.5 Typ	3.4 Typ
0805	330	100	17	16	12	4	8.6 Typ	9.5 Typ	5.4 Typ
1030	330	100	25	24	16	4	11 Typ	12.6 Typ	3.2 Typ
1040	330	100	25	24	16	4	11 Typ	12.6 Typ	4.2 Typ
1045	330	100	25	24	16	4	11 Typ	12.6 Typ	5.0 Typ
1050	330	100	25	24	16	4	11 Typ	12.6 Typ	5.3 Typ
1250	330	100	25	24	20	4	13.1 Typ	15 Typ	5.3 Typ
1265	330	100	25	24	20	4	13.1 Typ	15 Typ	6.7 Typ
1770	330	100	32	32	24	4	17.7 Typ	19.4 Typ	7.9 Typ
2213	330	100	44	44	32	4	22.5 Typ	23 Typ	13.6 Typ

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苏州沃虎电子科技有限公司
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江苏省苏州市吴江区阿尔法公馆A栋5F
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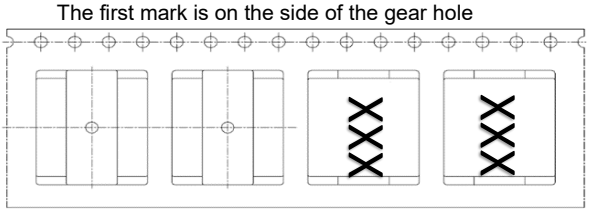
包装方式
PACKING FOR SMD

产品编码 P/N	WHAA0412~1265 Series	测试设备 TEST INSTRUMENT	Zentech-3305 / Zentech502BC
产品系列	一体成型电感	测试频率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0410~2213: 100KHZ / 1V

载带内产品排列方式：
Inductance Packing Method

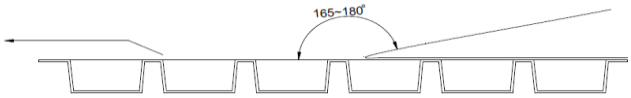
首字对孔

The first mark is on the side of the gear hole



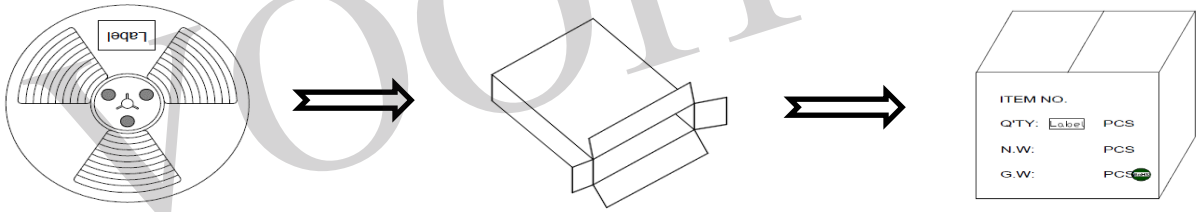
载带剥离力：
Typical Pulling Force

20~120 gf



装箱数量：
Package Quantity

卷盘 MPQ → **内盒 Middle box** → **外箱 Outer box**



系列 Series	卷盘 MBQ	内盒 Middle box	外箱 Outer box
201610	3000pcs	15000pcs	75000pcs
252010	3000pcs	15000pcs	75000pcs
252012	3000pcs	15000pcs	75000pcs
0410	5000pcs	15000pcs	45000pcs
0412	3000pcs	9000pcs	36000pcs
0402	2000pcs	6000pcs	24000pcs
0518	2000pcs	6000pcs	24000pcs
0502	2000pcs	6000pcs	24000pcs
0503	2000pcs	6000pcs	24000pcs
0610	3000pcs	9000pcs	27000pcs
0618	2000pcs	6000pcs	24000pcs
0602	2000pcs	6000pcs	24000pcs
0624	1000pcs	3000pcs	12000pcs
0603/063T	1000pcs	3000pcs	12000pcs
0604	1000pcs	3000pcs	12000pcs
0605	1000pcs	3000pcs	12000pcs
0803	1000pcs	3000pcs	12000pcs
0805	1000pcs	3000pcs	12000pcs
1030	800pcs	2400pcs	9600pcs
1040	800pcs	2400pcs	9600pcs
1045	800pcs	2400pcs	9600pcs
1050	800pcs	2400pcs	9600pcs
1250	500pcs	1500pcs	6000pcs
1265	500pcs	1500pcs	6000pcs
1770	300pcs	600pcs	2400pcs
2213	100pcs	100pcs	400pcs

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苏州沃虎电子科技有限公司
SuZhou Voohu Electronic Technology Co., Ltd.
江苏省苏州市吴江区阿尔法公馆A栋5F
5F, Building A, Alpha Mansion, Wujiang District, Suzhou City, Jiangsu Province

更多规格请访问沃虎官方网站
下载或者扫描二维码通过添加客服微信获取
https://www.wohu-tek.com/

注意事项

使用本产品时，请主意以下事项

- 产品保存期限为12个月，保存条件：温度5~40℃，湿度10~75%RH以内，超过保存期限可能会使产品端子电极发生氧化。
- 请勿在极端环境下使用和保存（高盐，强酸，强碱，强辐射等）。
- 产品焊接前，请进行预热；预热温度与焊接温度之间温差建议控制在150℃以内。
- 产品焊接后需重新拆卸焊接修正时，请遵循规格书规定的条件范围；过高的加热温度以及反复的拆卸可能会导致产品失效。
- 产品请勿接触清洗剂，酒精等液体，这会侵蚀产品本体，从而导致产品失效。
- 产品焊接到线路板后，请注意不可因线路板整体变形或局部变形而施加给电感剩余应力，这可能会导致电感发生破裂，脱落，以致失效。
- 产品通电后温度会随电流的增大而上升，设计时请务必考虑留有余量。
- 过高的静电会对产品产生永久性损害，请注意静电防护。
- 产品通电过程请勿触摸产品任何部位，防止触电。
- 本产品作为磁性产品，设计时请务必考虑周边元器件与本产品可能产生的相互影响
- 本产品适用于一般电子设备，如：AV设备，通信设备，家电产品，娱乐设备，电脑设备，个人设备，办公设备，计测设备，工业机器人等。且该一般电子设备需在常规的操作和使用方法环境下使用。
对于需要高度安全性和可靠性的，或者因本产品失效造成设备故障，误操作，运转不良等危及到人的生命身体及财产安全，以及对社会产生较大不良影响的特殊用途，设计使用前务必同本公司沟通，设计使用者如在未取得我司书面同意状况下使用造成任何后果，我司不予承担。特殊用途包含但不限定如下清单：

1 军用设备
2 运输设备（汽车，轨道交通产品，船舶等）
3 航空，航太设备
4 发电控制设备
5 核动力相关设备
6 爆炸引燃控制设备
7 交通控制设备
8 关系到国防安全的设备
9 防灾赈灾设备
10 各种安规设备
11其他被认定为特殊用途的设备

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ANNOUNCEMENTS

Please read this before using the product.

- The product storage life is 12 months，Storage Temperature：TEMP.5~40℃；RH10%~75%. Please use the product within the warranty period
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, radiation etc.）.
- Before soldering, be sure to preheat components:The preheating temperature should be set so that The temperature difference between the solder temuperature and chip temperature does not exceed 150℃.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. Repeated disassembly may invalidate the inductance
- The cleaning agent can not be used for these products. This may corrode the inductor
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- Do not touch any part of the product while the product is powered on to prevent electric shock.
- As a magnetic product, the design must consider the possible interaction between peripheral components and the product.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment,telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
  The products are not designed or warranted to meet the requirements of the applications listed below,whose performance and/or quality require a more stringent level of safety or reliability, or whose , malfunction or trouble could cause serious damage to society,person or property.
  If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us. Otherwise, our company will not bear the serious consequences caused by product quality problem.

1 Military equipment
2 Transportation equipment (cars, trains, ships, etc.)
3 Aerospace/aviation equipment
4 Power-generation control equipment
5 Atomic energy-related equipment
6 Explosive ignition control equipment
7 Transportation control equipment
8 Medical equipment
9 Disaster prevention/crime prevention equipment
10 Safety equipment
11 Other applications that are notconsidered general-purpose applications

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