CYGE 创一科技

CYGE TECHNOLOGY

一体式芯片电感

Super Molding Power Choke

IATF16949 ISO9001

ISO14001 ISO45001 GJB9001C

Product Survey 2020

匠心致远 追求卓越

Follow Ingenuity, Pursue Excellence

HMPC Series (Alloy)

SMPC Series (Carbonyl)

SMPC Series (Alloy)

SMPC Series (Dual Combination)

IATF 16949:2016 CN18/31586

ISO 9001 SGS CN18/31587

ISO 14001 SGS CN18/31914

ISO 45001 SGS CN18/31965

体系评定 AIITRE A001-IIIMS

www.cyge.com.cn

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Super Molding Power Choke

PHOTO

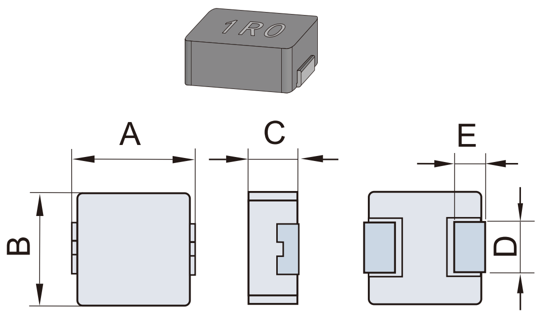
PRODUCT IDENTIFITACION

Part Name:

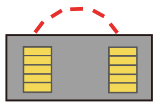
SMPC	0630	A	-	100	M
①	②	③		④	⑤

①	Series name	Super powder molding choke series
②	Dimensions	0630: L×W×H 7.2×6. 6×3. 0㎜
③	Feature code	A : Alloy C : Carbonyl iron
④	Inductance value	100 = 10uH
⑤	Inductance tolerance	J = 5% K = 10% L = 15% M = 20% N = 30%

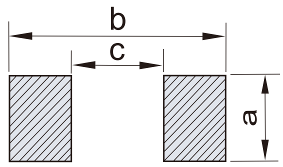
MECHANICAL & DIMENSIONS



Dimensions (Unit:mm)



Construction



Land patterns

Unit : mm

Type name	A	B	C	D	E	a	b	c	Weight	QTY(MPQ) pcs/reel
SMPC0415	4.4±0.25	4.2±0.2	1.3±0.2	2.0±0.3	0.8±0.3	2.5	5.2	2.2	0.15	3000
SMPC0420	4.4±0.25	4.2±0.2	1.8±0.2	2.0±0.3	0.8±0.3	2.5	5.2	2.2	0.19	3000
SMPC0515	5.5±0.25	5.2±0.2	1.3±0.2	2.0±0.3	1.0±0.3	2.8	6.0	2.2	0.22	3000
SMPC0520	5.5±0.25	5.2±0.2	1.8±0.2	2.0±0.3	1.0±0.3	2.8	6.0	2.2	0.29	2000
SMPC0530	5.5±0.25	5.2±0.2	2.8±0.2	2.0±0.3	1.0±0.3	2.8	6.0	2.2	0.44	2000
SMPC0620	6.9±0.4	6.5±0.3	1.8±0.2	3.0±0.3	1.6±0.3	3.5	8.25	3.4	0.48	1500
SMPC0630	6.9±0.4	6.5±0.3	2.8±0.2	3.0±0.3	1.6±0.3	3.5	8.25	3.4	0.8	1500
SMPC1040	10.8±0.3	10.0±0.3	3.8±0.2	3.0±0.5	2.0±0.5	4.1	12.2	5.8	2.5	800
SMPC1250	13.2±0.5	12.6±0.3	4.8±0.2	4.0±0.5	2.3±0.5	5	13.8	7.8	4.8	500
SMPC1770	17.2±0.5	17.0±0.3	6.8±0.2	12.0±0.3	2.5±0.5	12.3	18.2	11.2	11.8	300
SMPC2213	23.0±0.5	22.0±0.5	12.8±0.3	18.5±0.3	5.0±0.5	19.6	24	12.2	36.5	100

若您需要的未标明在上表中，请咨询我司业务人员，因为规格特性可以调整。
If what you need is not indicated in the above table, please consult our sales staff, because the specification characteristics can be adjusted, thank you!

SMPC Series(Alloy)

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SELECTION GUIDE

	SMPC 0415A	SMPC 0420A	SMPC 0515A	SMPC 0520A	SMPC 0530A	SMPC 0620A	SMPC 0630A	SMPC 1040A	SMPC 1250A	SMPC 1770A	SMPC 2213A
	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR	Isat Irms DCR
	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ	A A mΩ
Inductane											
0.1uH		22.0 12.0 4.0					60.0 32.5 1.7				
0.22uH	14.0 7.0 9.0	12.5 9.0 6.6		18.7 15.0 4.5			40.0 30.0 2.5	55.0 32.0 1.0	75.0 51.0 0.8		
0.33uH			15.0 10.0 9.0				34.0 21.0 3.0				
0.36uH							34.0 21.0 3.0	50.0 30.0 1.2	60.0 41.0 1.1		
0.39uH							25.0 21.0 3.5	45.0 26.0 1.2			
0.45uH							22.0 19.0 3.9	42.0 26.0 1.3			
0.47uH		10.5 7.0 14.0			15.0 12.0 7.5		20.0 18.0 4.1	40.0 25.0 1.68	56.0 35.0 1.4	75.0 60.0 0.95	
0.56uH		10.0 6.5 16.0	12.7 9.0 12.7	15.0 9.5 10.0			18.0 15.0 4.9	33.0 25.0 1.8			
0.68uH		9.0 6.0 18.0	9.3 8.1 15.5	11.2 8.9 18.0	14.0 8.5 12.0		17.0 14.0 5.7	30.0 23.0 2.4			
0.75uH					12.0 8.0 13.0						
0.82uH				9.0 8.0 17.0			16.0 12.0 6.9				
1.0uH		7.0 4.5 27.0	9.0 6.5 23.0		11.0 7.0 14.0	12.5 8.0 10.8	15.0 11.0 7.5	28.0 18.0 3.3	35.0 26.0 2.2	54.0 49.5 1.45	
1.2uH		7.0 4.5 27.0	8.0 5.3 33.7		11.0 6.5 16.0		14.0 10.0 10.5				
1.5uH	6.0 4.0 63.0	6.0 4.0 46.0		8.0 5.5 30.0	9.5 6.0 22.0	10.5 6.5 24.0	14.0 9.0 12.1	26.0 15.0 4.2	32.0 23.0 3.2	40.0 40.0 2.15	
1.8uH							13.0 7.5 16.0	23.0 13.0 5.8			
2.0uH				7.0 5.0 34.0				20.0 12.0 6.9			
2.2uH		5.0 3.0 58.0	6.0 3.3 64.0		9.0 5.5 33.0	8.0 5.5 27.5	10.0 7.0 17.5	18.0 12.0 7.0	25.0 15.0 5.0	37.0 34.0 2.5	
2.5uH							10.0 6.5 18.0				
3.3uH		4.0 2.5 87.0	5.0 3.2 72.0	5.0 4.5 58.0	6.5 5.0 38.0	7.0 4.0 43.0	9.5 6.0 26.0	16.0 10.0 11.8	23.0 12.0 9.0		45 40 1.8
4.7uH		3.0 2.2 105.0	4.0 3.0 106.0	4.0 3.5 78.0	5.0 4.0 54.0	5.5 3.5 65.0	6.5 5.5 38.0	13.0 8.5 20.0	17.0 11.0 14.0	27.0 24.0 4.72	
5.6uH							6.25 5.0 42.0	11.0 8.0 23.0	15.0 10.5 15.0		40 38 2.3
6.8uH		2.5 2.0 178.0	3.2 2.5 130.0	3.4 2.8 120.0	4.3 3.5 76.0	4.0 3.0 95.0	6.0 5.0 48.0	10.0 7.0 25.0	14.0 10.0 18.0	22.0 20.0 7.55	36 36 2.3
8.2uH		2.0 1.8 207.0		3.1 2.6 150.0			6.0 4.5 65.0	9.0 7.0 27.0	13.0 9.0 20.0	20.0 16.0 8.7	
10.0uH		1.8 1.6 282.0	3.0 2.0 170.0	3.0 2.5 175.0	3.5 2.7 130.0		5.5 4.5 68.0	8.5 6.5 30.0	12.0 8.0 25.0	18.0 14.0 10.0	28 28 4.2
15.0uH			2.3 1.0 350.0				5.0 3.5 98.0	7.0 6.25 45.0			24 23 6.2
20.0uH							4.5 3.0 115.0			12.0 9.7 21.9	
22.0uH							3.1 2.0 165	5.5 5.0 66.0			
33.0uH							2.5 1.8 257.0	4.5 4.0 92.0		10.0 9.0 37.0	17 15 15.5
47.0uH								3.5 3.3 145.0			
68.0uH								3.0 2.0 210.0		6.5 5.2 85.0	
100uH										5.0 3.3 130	

NOTE:

1. Electrical specification at 25℃.
2. Inductance tested at 100 kHz, 0.25Vrms.
3. The DCR value is maximum.
4. Isat is the DC current at which inductance drop 30%(Max) from its value without current.
5. Irms is the current that caused a approx 40 ℃ temperature rise from 25℃ ambient.
6. Operating temperature rang(Including coil' self temperature rise) -55℃to+155℃
7. Storage termperature rang -55℃to+155℃

一体式芯片电感

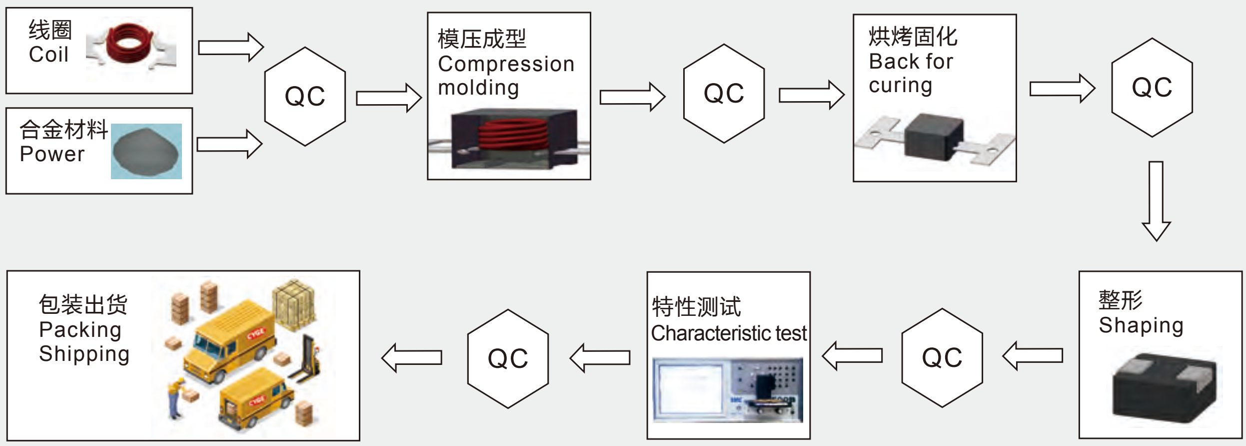
新材料 + 新工艺 = 新产品

新材料	新工艺	新产品
高性能合金粉末	多种绕线方式	高可靠性
先进聚合树脂材料	低压成型工艺	高性价比
纳米包覆材料	全产业链制程	独特价值

闭磁路设计，结构牢固，抗电磁干扰能力好，体积小、储能大，耐温性好，寄生电容小，高可靠性，高性价比。

产品构造及制造流程

一体式芯片电感如下图所示，使用线圈、金属合金材料、电极为主，将合金材料与线圈通过模压成型电感



应用说明

公司产品广泛应用于5G及人工智能、计算机、LED照明、安防、智能电网、工业控制、医疗设备、高铁、航天军工以及汽车电子等领域。

- 5G&AI
- 大数据云计算 Cloud Computing
- 绿色照明 New Energy
- 工业控制 Industrial Control
- 汽车电子 Automotive Electronic
- 航天军工 Aerospace Military