

深圳市索瑞达电子有限公司

承 认 书 SPECIFICATION FOR APPROVAL

客户名称:	
Customer Name :	
客户料号: Customer P/N:	
产 品 名 称 : Product Name:	功率电感
索瑞达料号: Sorede P/N:	SDRH.1205CT.NLF681MT00





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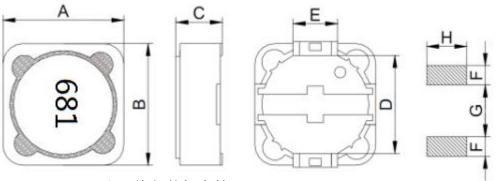
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Modify Resume

修改日期			修改明细	修改后版本号
Date modified			Modify Details	Version No.
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1、外形尺寸 Dimension:



注:线包外加套管

2、产品品名构成 Product Spec. Model

A 12.0±0.5 B 12.0±0.5 C 6.0 Max. D 7.6±0.2 E 5.0 Ref. F 2.8Ref. G 7.0 Ref H 5.4 Ref

单位Unit: mm

SDRH . 1205CT . N L F 681 M T 00

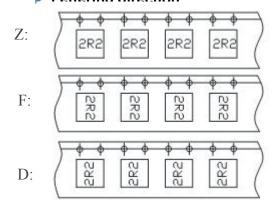
a b cdefgh

- a: 系列名称Series name
- b: 产品尺寸Product dimensions
- **c**: 材质Material (M: 锰锌 N: 镍锌)
- d: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- e: 印字方向 Lettering direction ▶
- f: 电感值Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

- g: 电感公差Inductance Tolerance (K:10%; M:20%; N:30%)
- h: 包装Package(T:磁带/卷轴Tape/Reel、B: 散装Bulk)
- i: 编号Numbering (标准standard)

▶ I ettering direction



3、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	DR9.8*5.2*5.0 R20 JPT7H SP 12.1*5.1*10.7 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180℃
3	ADHESIVE	JC764-1、G9010 OR EQUIVALENT	NA	NA
4	BASE	SHC-1200B	NA	NA
5	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

^{*}NA:NOT APPLICABLE.

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4、电性能参数表 Electrical Characteristics List

47 七江加多 X X Electrical Characteristics List					
规格型号 Part NO.	电感量 Tolerance (uH)	测试频率 Test Freq. (kHz/v)	直流电阻 DCR Max (Ω)	饱和电流 Isat (A)	
SDRH.1205CT.NLF681MT00	680	100/0.25	1.200	0.70	

※公差Tolerance: N:±30%、M:±20%、K:±10%.

※工作温度Operating temperature rang: -40 ℃ to +105℃ (Including Self-heating)

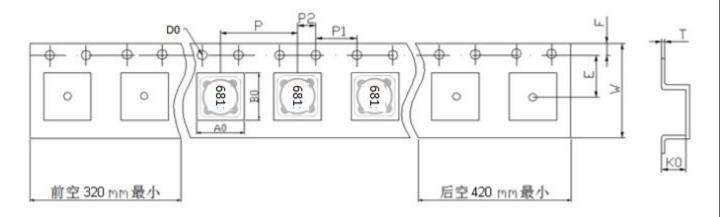
※储存温度Storage termperature rang: -40 ℃ to +125℃

Isat电流:指使电感量比初始值下降30%Max (The rated DC current is that which cause at 30%Max inductance reduction from the initial value)。

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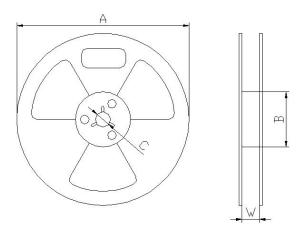
5、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



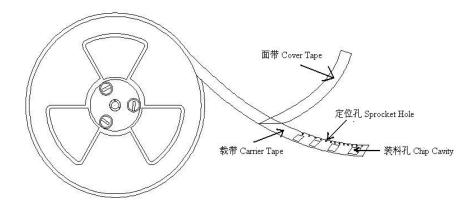
ITEM	W	A0	В0	K0	P	Е	F	f	P1	P2	Т
DIM	24.00	12.6	12.6	6.2	16.0	11.5	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



Α	330±0.5
В	100±0.5
С	13.5±0.5
W	24.5±0.5

3) 卷盘包装示意图 Tape packing diagram

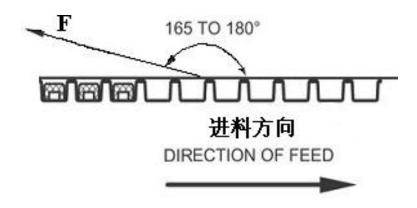


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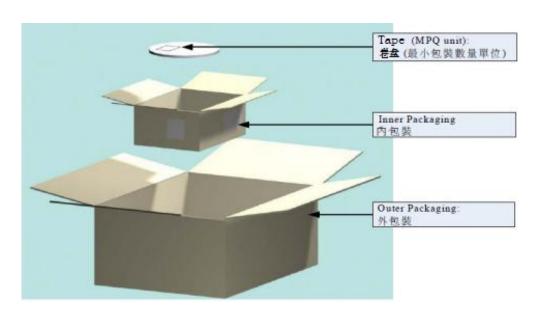
4) 剥离强度要求Peeling required

①F 力大小: 20~100g;

②面带剥离角度: 165°~180°。



5) 包装数量 Packing quantity



项目 (Project)	数量 (PCS)	尺寸规格(Size:mm)
盘(Reel)	500	13"
内盒 (Inner box)	1000	340mm*340mm*65mm
外箱 (Out box)	3000	360mm*360mm*235mm

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6. RELIABILITY TEST METHOD MECHANICAL **TEST ITEM SPECIFICATION** TEST DETAILS Substrate bendir △ L/Lo ≤ ±5% The sample shall be soldered onto the printed circuit board in figure 1 and a load applied unitil the figure in the arrow There shall be direction is made approximately 3mm.(keep time 30 seconds) no mechanical PCB dimension shall the page 7/9 damage or elec-F(Pressurization) trical damege. 45±2 45±2 PRESSURE ROD figure-1 R340 Vibration ∆L/Lo≦±5% The sample shall be soldered onto the printed circuit board and when a vibration having an amplitude of 1.52mm There shall be and a frequency of from 10 to 55Hz/1 minute repeated should no mechanical be applied to the 3 directions (X,Y,Z) for 2 hours each. damage. (A total of 6 hours) New solder Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated Solderability More than 90% over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of below for 3±0.2 seconds fully in molten solder M705 with a temperature of 245±2 $^{\circ}$ C . More than 90% of the electrode sections shall be couered with new solder smoothly when the sample is taken out of the solder bath.

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MECHANIC	AL					
TEST ITEM	SPECIFICATION					
Resistance to	There shall be	Temperature profile of reflow soldering				
Soldering heat	no damage or					
(reflow soldering)	problems.	Soldering (Peak temperature 260±3°C 10 sec Pre-heating Pre-heating Slow cooling (Stored at room temperature) The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric conditions for 1 hour, after which the measurement shall be made.				

ELECTRICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
Insulation	There shall be no other	DC 100V voltage shall be applied across this sample of top
resistance	damage or problems.	surface and the terminal.
		The insulation resistance shall be more than 1 \times 10 ⁸ Ω .
Dielectric	There shall be	AC 100V voltage shall be applied for 1 minute acrosset the top
withstand	no other	surface and the terminal of this sample
voltage	damage or	
	problems.	
Temperature	△L/L20°C ≦±10%	The test shall be performed after the sample has stabilized in
characteristics	0~2000 ppm/°C	an ambient temperature of - 40 to + 105 $^\circ\mathrm{C}$,and the value
		calculated based on the value applicable in a normal
		temperature and narmal humidity shall be \triangle L/L 20 $^{\circ}$ C \leqq ± 10%.

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TEST ITEM)		a material e	ECIFICATION					
High temperature	△L/Lo≦±5%		The sample shall be left for 500hours in an atmospere with						
storage			a temperature of 105±2℃ and a normal humidity.						
	There shall be		Upon completion of the measurement shall be made after the						
	no mechanical		sample has been left in a normal temperature and normal						
	damage.	humidity f	humidity for 1 hour.						
Low temperature		The samp	le shall be left f	or 500 hours in	an atmosp	here with			
storage		a tempera	ture of -40±3℃.						
	There shall be	Upon com	Upon completion of the test, the measurement shall be made						
	no mechanical	after the s	after the sample has been left in a normal temperature and						
	damage.	normal hu	normal humidity for 1 hour.						
Change of	△L/Lo≦±5%	The samp	le shall be subj	ect to 5 continu	uos cycles,	such as shown			
temperature		in the tab	in the table 2 below and then it shall be subjected to standard						
•			stmospheric conditions for 1 hour, after which measurement						
	There shall be	stmosphe	ric conditions fo	or 1 hour, after v	which meas	surement			
	There shall be no other dama-	stmosphe shall be m		or 1 hour, after v	which meas	surement			
				or 1 hour, after v	which meas	surement			
	no other dama-				which meas	surement			
	no other dama-		nade.		ole 2	surement Duration			
	no other dama-		nade. Temp	tab	ole 2				
	no other dama-		Temp 1 - 4	tab perature	ole 2	Duration			
	no other dama-		Temp 1 -4 (Themo	tab perature 0±3℃	ole 2	Duration			
	no other dama-		Temp 1 -4 (Themo	tab perature 0±3°C stat No.1)	ble 2	Duration 10 min.			
	no other dama-		Temp 1 -4 (Themo 2 Sta	tab perature 0±3°C stat No.1)	ble 2 5 s	Duration 10 min. ec. or less			
	no other dama-		Temp 1 — 4 (Themo 2 Sta atmo 3 105	tab perature 0±3°C stat No.1) ndard spheric	ble 2 5 s	Duration 10 min. ec. or less 5.1→No.2			
	no other dama-		Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo	table berature 0±3°C stat No.1) ndard spheric 5±2°C	ole 2 5 s No	Duration 10 min. ec. or less 5.1→No.2			
	no other dama-		Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo 4 Sta	table berature 0±3°C stat No.1) Indard spheric 5±2°C stat No.2)	5 s	Duration 10 min. ec. or less 5.1→No.2 30 min.			
	no other dama-		Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo 4 Sta	table	5 s	Duration 10 min. ec. or less 5.1→No.2 30 min. ec. or less			
Moisuture storage	no other dama- ge of problems	shall be n	Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo 4 Sta	table overature 0±3°C stat No.1) Indard spheric 5±2°C stat No.2) Indard spheric	5 s No	Duration 10 min. ec. or less 5.1→No.2 30 min. ec. or less 5.2→No.1			
Moisuture storage	no other dama- ge of problems	shall be n	Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo 4 Sta atmo	table overature 0±3°C stat No.1) Indard spheric 5±2°C stat No.2) Indard spheric or 500 hours in	5 s No a temperat	Duration 10 min. ec. or less 5.1→No.2 30 min. ec. or less 5.2→No.1			
Moisuture storage	no other dama- ge of problems	shall be m	Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo 4 Sta atmo	table berature 0±3°C stat No.1) Indard spheric 5±2°C stat No.2) Indard spheric or 500 hours in H) of 90~95%.	5 s No	Duration 10 min. ec. or less 5.1→No.2 30 min. ec. or less 5.2→No.1			
Moisuture storage	no other dama- ge of problems	shall be m The samp 40±2°C at Upon com	Temp 1 — 4 (Themo 2 Sta atmo 3 105 (Themo 4 Sta atmo	table overature 0±3°C stat No.1) ndard spheric 5±2°C stat No.2) ndard spheric or 500 hours in H) of 90~95%. est, the measur	5 s No a temperat	Duration 10 min. ec. or less 5.1→No.2 30 min. ec. or less 5.2→No.1 ure of			

The sample shall be reflow soldered onto the printed circuit board in every test.

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7、注意事项 Note

①本承认书保证我司产品作为一个单体时的质量情况。当我司产品被安装到贵司产品上时,请保证 贵司的产品已根据贵司的规范进行了有效评估和确认。

This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.

②如果贵司对我司产品的使用已超过了本承认书所界定的产品功能,那么对于由此引发的失效, 我司将不予保证。

We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

- ③为了保持终端电极的焊接性,并使包装材料保持良好状态,必须控制储存区的温度和湿度。
 To maintain the solderabilty of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.
 - ※建议的条件: -10~+40℃, 30~70%RH。

Recommended conditions: $-10 \sim +40 \,^{\circ}\text{C}$, $30 \sim 70 \,^{\circ}\text{RH}$.

- ※储存超过六个月的,应在实际使用前进行焊接检验。
 In case of storage over 6 months, soldrability shall be checked before actual usage.
- ※即使在理想的储存条件下,产品的可焊性也随着时间的推移而降低。因此,产品应从交货时算起, 建议8个月之内使用完。

Even under ideal storage conditions, the weldability of the product decreases over time. therefore, the product should be From the time of delivery, it is recommended that it be used within 8 months.

④本承认书在客户收到30天之内,必须签章返回,逾期视为默认。

The Specification Approval should be sent back to the supplier with customer's chop on it within 30 days after receiving it, or we will take it as approved by customer's automatically.

⑤如有特殊规格要求,请事前联络我司技术部人员。

In case of special specifications please contact our technical department prior staff.