

深圳市索瑞达电子有限公司

承 认 书 SPECIFICATION FOR APPROVAL

客 户 名 称 : Customer Name :	立创	
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:	SCD.7850.DLF471KT07	





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修改履历表

Modify Resume

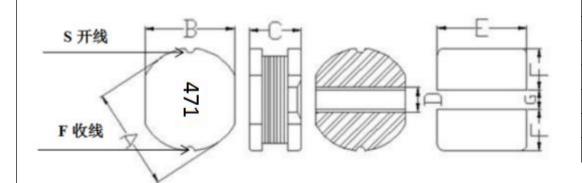
	Modify Resume	
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2022-04-27	文件新制订 File formulation	A
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Z:

D:

1、外形尺寸 Dimension:



单位Unit: 1	mm
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A	7.8±0.3
В	7.0±0.3
С	5.0±0.3
D	2.4Ref.
Е	7.5Ref.
F	3.0Ref.
G	2.4Ref.

2、产品品名构成 Product Spec. Model

SCD 7850 D L F 471 K T 07 a b c d e f g h i

- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- **c:** 绕组(D:单线Single Line、C: 双线Double Line)
- 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)

3、结构Structure



4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	N5H SMD 7.8×5.0 B=3.0 F=2.6 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180℃
3	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

^{*}NA:NOT APPLICABLE.

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5. 内丛公分数主 Plant 1.01							

5、电性能参数表 Electrical Characteristics List

7、七口尼乡奴状1						
规格型号 Part NO.	电感量 Tolerance(uH)	测试频率 Test Freq. (kHz/v)	直流电阻 DCR (Ω)Max.	饱和电流 Isat (A)	线径WIRE (φ/mm)	圈数TS (Ref)
SCD.7850.DLF471KT07	470	100 / 0.25	1.94	0.34	0.16	112.5

[※]公差Tolerance: N:±30%、M:±20%、K:±10%.

Isat 电流:指使电感量比初始值下降10%Max(The rated DC current is that which cause at 10%Max inductance reduction from the initial value)。

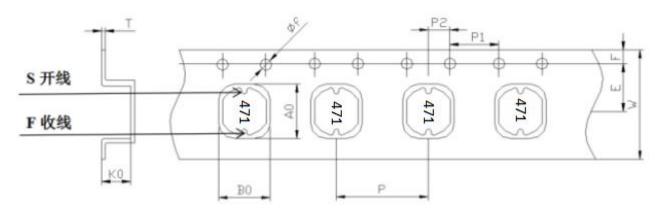
[※]工作温度Operating temperature rang: -40 ℃ to +105℃ (Including Self-heating)

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

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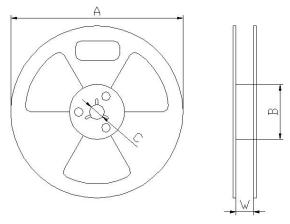
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



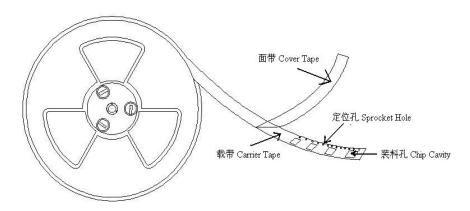
ITEM	W	A0	В0	K0	P	Е	F	D0	P0	P2	T
DIM	16.00	8.20	7.50	5.40	12.00	7.50	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

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	16.5±0.5

3) 卷盘包装示意图 Tape packing diagram

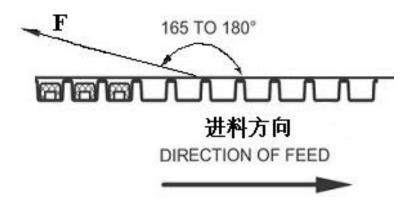


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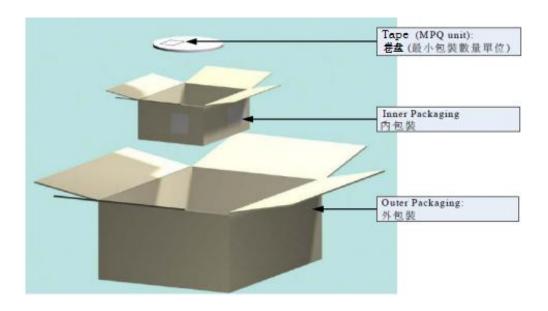
4) 剥离强度要求Peeling required

①F 力大小: 20~100g;

②面带剥离角度: 165°~180°。



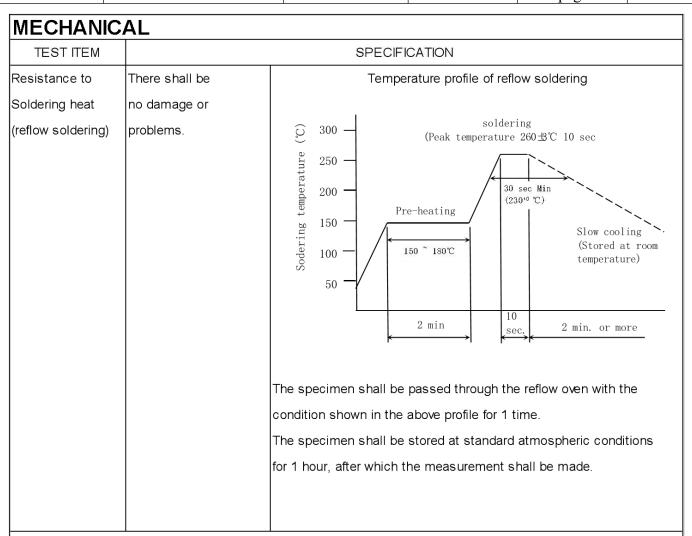
5) 包装数量 Packing quantity



项目 (Project)	数量(PCS)	尺寸规格(Size:mm)
盘(Reel)	1000	13"
内盒 (Inner box)	3000	340mm*340mm*65mm
外箱 (Out box)	9000	360mm*360mm*225mm

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7.RELIABIL	ITY TEST M	ETHOD								
MECHANIC										
TEST ITEM SPECIFICATION TEST DETAILS										
Substrate bend	dir △ L/Lo ≦ ±5%	% 7	The sam	ple shall be soldered	onto the printed o	circuit board				
		ļi	in figure 1 and a load applied unitil the figure in the arrow							
	There shall I	pe o	direction	is made approximate	ely 3mm.(keep tin	ne 30 seconds)				
	no mechanio	cal F	PCB din	nension shall the page	e 7/9					
	damage or e	elec-		F(P	ressurization)					
	trical dameg	e.								
				Faisi	· · · · · · · · · · · · · · · · · · ·					
			R5 45±2 45±2							
						10/20				
			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 no mechanical			and a frequency of from 10 to 55Hz/1 minute repeated should							
			be applied to the 3 directions (X,Y,Z) for 2 hours each.							
	damage.	((A total of 6 hours)							
Solderability	New solder	F	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated							
More than 90%			over the whole of the sample before hard, the sample shall							
		t	then be preheated for about 2 minutes in a temperature of							
		1	130 \sim 150 $^{\circ}$ C and after it has been immersed to a depth 0.5mm							
		b	below for 3±0.2 seconds fully in molten solder M705 with							
		a	a temperature of 245±2℃.							
		More than 90% of the electrode sections shall be couered								
		v	with new solder smoothly when the sample is taken out of							
		l _t	he sold	er bath.						

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ELECTRICAL

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

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TEST ITEM		SPECIFICATION							
High temperature	△L/Lo≦±5%	The samp	The sample shall be left for 500 hours in an atmospere with						
storage		a tempera	ature o	of 105±2℃ and a normal hu	midity.				
	There shall be	Upon con	npletio	n of the measurement shall	be made after the				
	no mechanical		sample has been left in a normal temperature and normal						
	damage.	humidity		·					
		Trainially for Thous.							
_ow temperature	△L/Lo≦±5%	The samp	ole sha	all be left for 500 hours in ar	atmosphere with				
storage		a tempera	ature o	ıf -40±3℃.	·				
•	There shall be			n of the test, the measuren	nent shall be made				
	no mechanical	after the s	sample	e has been left in a normal t	emperature and				
	damage.		•	for 1 hour.	•				
Change of	△L/Lo≦±5%	+		all be subject to 5 continuos	s cycles, such as shown				
temperature		in the table 2 below and then it shall be subjected to standard							
•	There shall be			nditions for 1 hour, after wh					
	no other dama-	shall be r		,					
	ge of problems								
				table	e 2				
				Temperature	Duration				
			1	-40±3℃	10 min.				
				(Themostat No.1)					
			2	Standard	5 sec. or less				
			_	atmospheric	No.1→No. 2				
			3	105±2℃	30 min.				
			-	(Themostat No.2)					
			4	Standard	5 sec. or less				
			'	atmospheric	No.2→No.1				
		_ L		atmospherio	140.2 140.1				
Moisuture storage	△L/Lo≦±5%	The samp	The sample shall be left for 500 hours in a temperature of						
		40±2°C a	nd a h	umidity(RH) of 90 \sim 95%.					
	There shall be	Upon con	npletio	n of the test, the measuren	nent shall be made				
	no mechanical	after the s	sample	e has been left in a normal t	emperature and				
	damage.			more than 1 hour.					

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

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8、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 $^{\circ}$ C, 30 \sim 70%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.