

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.1054.DYF470KT00	

制造厂商			
Manufa	cturer		
拟 制	唐杨英		
Draft	織送电子宏观		
审核感	佐紀子		
Check $oldsymbol{\mathrm{I}}$	程专用章		
日期			
Date	2023-04-01		

客户承认印章			
Approval Signet			
日期 Date			

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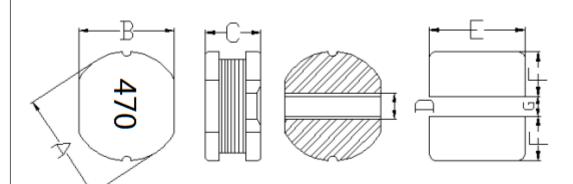
修改履历表

Modify Resume

	Wiouny Resume	
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2023-04-01	文件新制订 File formulation	A

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1、外形尺寸 Dimension:



单位Unit: mm

A	10.0±0.3
В	9.0±0.3
C	5.4±0.3
D	2.9Ref.
Е	9.5Ref.
F	3.7Ref.
G	2.5Ref.

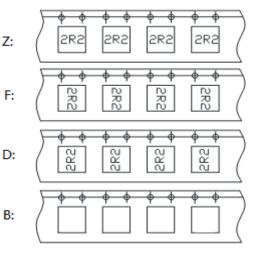
2、产品品名构成 Product Spec. Model

- 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)

► Lettering direction



3、结构Structure



4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL	UL FILE NO.	TEMP. CLASS
1	CORE	Ni-Zn CORE OR EQUIVALENT	NA	NA
2	WIRE	POLYURETHANE ENAMELLED COPPER WIRE OR EQUIVALENT	E258243	180°C
3	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

^{*}NA:NOT APPLICABLE.

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5、电性能参数表 Electrical Characteristics List

	20-02			
规格型号 Part NO.	电感量 Tolerance(µH)	测试频率 Test Freq. (kHz/v)	直流电阻 DCR Max (Ω)	饱和电流 Isat (A)
SCD.1054.DYF470KT00	47	100 / 0.25	0.144	2.00
	l .	1	İ	1

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)。

[※]公差Tolerance: N:±30%、M:±20%、K:±10%.

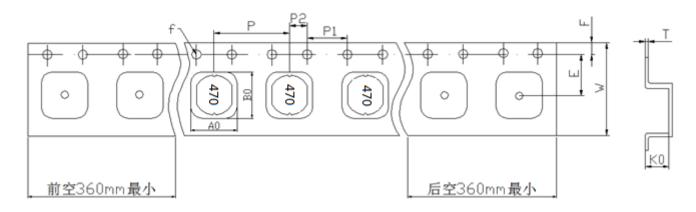
[※]工作温度Operating temperature rang: -40 $^{\circ}$ to +105 $^{\circ}$ (Including Self-heating)

[※]储存温度Storage termperature rang: -40 $^{\circ}$ to +125 $^{\circ}$

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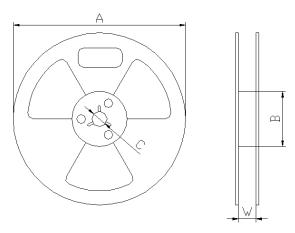
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



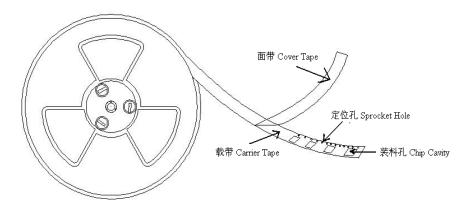
ITEM	W	A0	В0	K0	P	Е	F	D0	Р0	P2	T
DIM	24.00	10.80	9.40	5.70	12.00	11.5	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

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

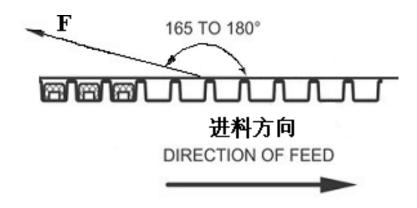


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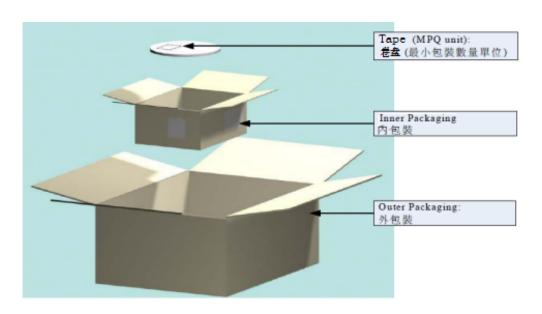
4)剥离强度要求Peeling required

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)	1000	13"
内盒 (Inner box)	2000	340mm*340mm*65mm
外箱 (Out box)	6000	360mm*360mm*235mm

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7. 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 $130\sim150^{\circ}$ C and after it has been immersed to a depth 0.5mm below for 3±0.2 seconds fully in molten solder M705 with a temperature of 245±2°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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Soldering heat (reflow soldering) no damage or problems. $ \begin{array}{cccccccccccccccccccccccccccccccccc$, elsien i tameer page
Resistance to Soldering heat (reflow soldering) There shall be no damage or problems. Temperature profile of reflow soldering soldering (Peak temperature 260±3°C 10 sec There shall be no damage or problems. Temperature profile of reflow soldering soldering (Peak temperature 260±3°C 10 sec The specimen shall be passed through the reflow oven with the soldering (Stored at root temperature)	MECHANIC	AL	
Soldering heat (reflow soldering) problems. 300 — soldering (Peak temperature 260±3°C 10 sec 200 — Soldering (Peak temperature 260±3°C 10 sec 30 sec Min (230+0°C) Slow cooling (Stored at root temperature) 2 min 10 sec, 2 min. or more The specimen shall be passed through the reflow oven with the	TEST ITEM		SPECIFICATION
(reflow soldering) problems. Soldering (Peak temperature 260±3°C 10 sec	Resistance to	There shall be	Temperature profile of reflow soldering
(Peak temperature 260±3°C 10 sec Pre-heating Pre-heating Slow cooling (Stored at root temperature)	Soldering heat	no damage or	
	(reflow soldering)	problems.	Pre-heating Slow cooling (Stored at room temperature) Slow cooling (Stored at room temperature)

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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	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 $^\circ{\!}{}^_\circ$,and the value	
		calculated based on the value applicable in a normal	
		temperature and narmal humidity shall be △L/L 20°C ≦± 10%.	

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					page			
	NT CHARACT	ERISTI						
TEST ITEM				FICATION				
High temperature	∆L/Lo≦±5%	The sample shall be left for 500hours in an atmospere with						
storage			ture of 105±2℃ and	•				
	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						
Low temperature	△L/Lo≦±5%	The samp	le shall be left for 50	0 hours in an atmosp	ohere with			
storage		a tempera	a temperature of -40±3°C.					
	There shall be	Upon com	pletion of the test, the	ne measurement sha	II be made			
	no mechanical	after the s	ample has been left	in a normal temperat	ure and			
	damage.	normal hu	midity for 1 hour.					
Change of	△L/Lo≦±5%	The samp	le shall be subject to	5 continuos cycles,	such as shown			
temperature		in the tabl	e 2 below and then i	t shall be subjected t	o standard			
	There shall be	stmosphe	stmospheric conditions for 1 hour, after which measurement					
	no other dama-	shall be m	shall be made.					
	ge of problems							
	ge of problems			table 2				
	ge of problems		Temperatu	1	Duration			
	ge of problems	<u> </u>	Temperatu	ure	Duration 10 min.			
	ge of problems		<u> </u>	ure				
	ge of problems		1 -40±3°(No.1)				
	ge of problems		1 -40±3°((Themostat I	No.1) 5 s	10 min.			
	ge of problems		1 -40±3°C (Themostat I 2 Standard	No.1) d 5 s	10 min.			
	ge of problems		1 — 40±3°C (Themostat I 2 Standard atmosphe	No.1) d 5 s	10 min. sec. or less o.1→No.2			
	ge of problems		1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C	No.1) d 5 s ric N	10 min. sec. or less o.1→No.2			
	ge of problems		1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C (Themostat I	nre No.1) d 5 s ric N No.2)	10 min. sec. or less o.1→No.2 30 min.			
	ge of problems		1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C (Themostat I 4 Standard	nre No.1) d 5 s ric N No.2)	10 min. sec. or less o.1→No.2 30 min. sec. or less			
Moisuture storage	ge of problems △L/Lo≤±5%	The samp	1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C (Themostat I 4 Standard atmosphe	nre No.1) d 5 s ric N No.2)	10 min. sec. or less o.1→No.2 30 min. sec. or less o.2→No.1			
Moisuture storage			1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C (Themostat I 4 Standard atmosphe	No.1) d 5 s ric N No.2) d 5 s ric N	10 min. sec. or less o.1→No.2 30 min. sec. or less o.2→No.1			
Moisuture storage		40±2°C ar	1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C (Themostat I 4 Standard atmosphe le shall be left for 50 and a humidity(RH) of	No.1) d 5 s ric N No.2) d 5 s ric N	10 min. sec. or less o.1→No.2 30 min. sec. or less o.2→No.1			
Moisuture storage	△L/Lo≦±5%	40±2°C ar	1 — 40±3°C (Themostat I 2 Standard atmosphe 3 105±2°C (Themostat I 4 Standard atmosphe le shall be left for 50 and a humidity(RH) of appletion of the test, the	No.1) d 5 s ric N No.2) d 5 s ric N O hours in a temperat 90~95%.	10 min. sec. or less o.1→No.2 30 min. sec. or less o.2→No.1 ture of			

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

- ※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.