

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.3516.DYF1R0MT00	





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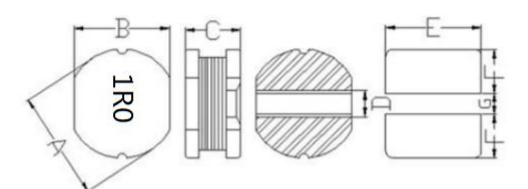
修改履历表

Modify Resume

修改日期			修改明细	修改后版本号
Date modified			Modify Details	Version No.
2023-03-27	文件新制订	File formulation		A
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1、外形尺寸 Dimension:



单位]	Unit:	mm

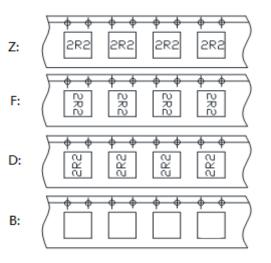
2、产品品名构成 Product Spec. Model

- 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 SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	JC40B DR3.5*1.6 B:1.3 F:0.6 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、电性能参数	枚表 E	lectrical Char	acteristics Lis				
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)	线径WIRE (φ/mm)	圈数TS (Ref)
SCD.3516.DYF1R0	MT00	1.0	100 / 0.25	0.049	1.20	0.18	7.5

※公差Tolerance: N:±30%、M:±20%、K:±10%.

※工作温度Operating temperature rang: -40 $^{\circ}$ to +125 $^{\circ}$ (Including Self-heating)

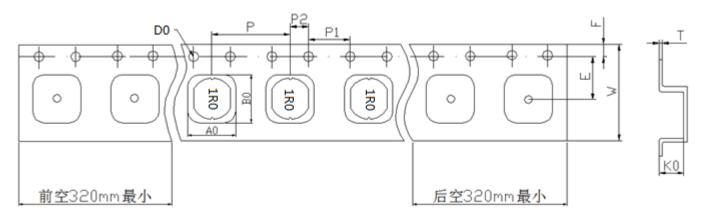
※储存温度Storage termperature rang: -40 $^{\circ}$ to +125 $^{\circ}$

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)。

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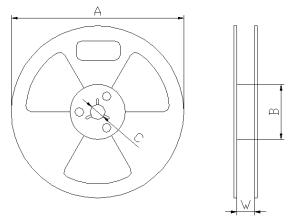
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



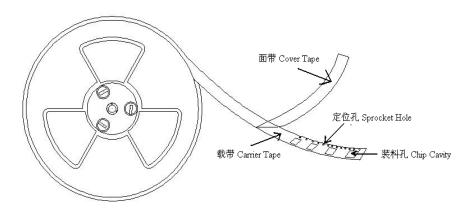
ITEM	W	A0	В0	K0	P	Е	F	D0	Р0	P2	Т
DIM	12.00	3.90	3.30	1.90	8.00	5.5	1.75	1.50	4.00	2.00	0.35
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

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	12.5±0.5

3) 卷盘包装示意图 Tape packing diagram

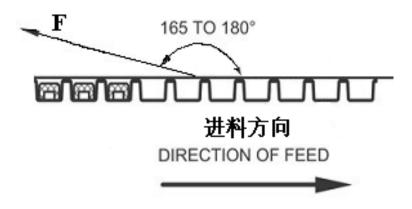


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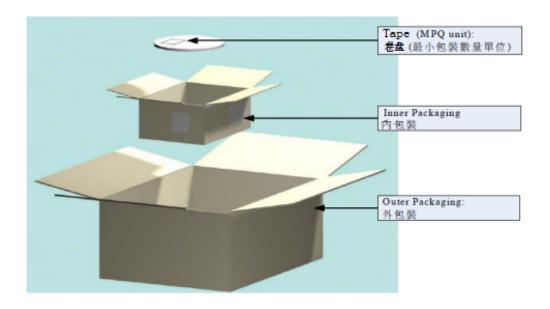
4) 剥离强度要求Peeling required

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)	3000	13"
内盒 (Inner box)	12000	340mm*340mm*65mm
外箱 (Out box)	36000	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 $130\sim150^{\circ}\text{C}$ 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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MECHANICAL								
TEST ITEM SPECIFICATION								
Resistance to	eflow 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 root 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 DETA	ILS				
Insulation	There shall be no other damage or problems.	DC 100V voltage shall be applied across this sample of top						
resistance	damage of problems.	surface and the termina	l.					
		The insulation resistance shall be more than 1 × $10^8 \Omega$.						
Dielectric	There shall be	AC 100V voltage shall b	e applied for 1 mi	nute 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 perform	ned after the sam	ple has stabilized	in			
characteristics	0~2000 ppm/°C	an ambient temperature	of - 40 to + 125°(and the value				
		calculated based on the	value applicable	in a normal				
		temperature and narmal	humidity shall be	e)%.			

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TEST ITEM SPECIFICATION									
High temperature		The same	ole sh	all be left for 500hours in					
storage			·						
o to ago	There shall be	a temperature of 125±2°C and a normal humidity. Upon completion of the measurement shall be made after the							
	no mechanical		sample has been left in a normal temperature and normal						
	damage.		humidity for 1 hour.						
	admage.								
Low temperature	△L/Lo≦±5%	The samp	The sample shall be left for 500 hours in an atmosphere with						
storage	a tempera	a temperature of -40±3°C.							
	There shall be	Upon con	npletio	on of the test, the meas	urement shall be made				
	no mechanical	after the	sampl	e has been left in a non	mal temperature and				
	damage.	normal hu	umidit	y for 1 hour.					
Change of △L/Lo≤±5% The sample shall be subject to 5 continuos cycles, such as shown									
temperature	e subjected to standard								
	There shall be	stmosphe	eric co	onditions for 1 hour, afte	er which measurement				
	no other dama-	shall be made.							
	ge of problems								
			table 2						
			Temperature Duration						
			1	-40 ±3 ℃	10 min.				
				(Themostat No.1)					
			2	Standard	5 sec. or less				
				atmospheric	No.1→No.2				
			3	125±2 ℃	30 min.				
				(Themostat No.2)					
			4	Standard	5 sec. or less				
				atmospheric	No.2→No.1				
Moisuture storage	△L/Lo≦±5%	The samp	The sample shall be left for 500 hours in a temperature of						
		40 ± 2 °C and a humidity(RH) of 90 \sim 95%.							
	There shall be	Upon con	Upon completion of the test, the measurement shall be made						
	no mechanical	after the	sampl	e has been left in a nori	mal temperature and				
	damage.		normal humidity more than 1 hour.						

Test conditions:

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.

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