



ISO9001-2008
Certificate No:02411Q20838R2M

CAREFUL環境關聯物質管控標準: Cd<5ppm; Pb<50ppm; Hg:ND; Cr6+:ND

Defer to: **SONY/SS-00259** ; SAMSUNG/OQA-2049 ; **MICROSOFT/H00594** ; FOXCONN/EPI12 ; **HP/HX-00011-00...**

承認書

SPECIFICATION FOR APPROVAL

客戶名稱 CUSTOMER	LEPCOS
品名規格 DESCRIPTION	F9 SCNF 100
客戶料號 CUS. P/N	
提出日期 DATE	Oct.16. 2024.
編號 SERIAL NO.	KF 24101636644

出圖 DRAWING			承認 CUSTOMER APPROVE	
發行 MADE	復核 CHECKED	確認 APPROVED		
DATE: 2024年10月16日				

說明Note:

本承認書在客戶收到7天之內，須簽章返回，逾期視為默認。

The Specification Approval is required to be sent back to the supplier with customer's chop or signature on it within 4 days after receiving it, or we will take it as approved by customer automatically.



科峰集團

CAREFUL GROUP

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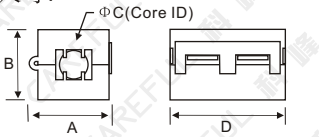
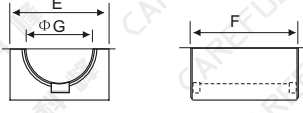
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承認書

SPECIFICATION FOR APPROVAL

客戶名稱 CUSTOMER	LEPCOS	日期 DATE	2024.10.16.
規格 ITEM	F9 SCNF 100	編號 SERIAL NO.	KF 24101636644
1.1. 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm): 1.2. 實物圖: The Sample::		A	25.0 ± 1.0 mm
外觀尺寸: 		B	23.0 ± 1.0 mm
磁芯尺寸: 		C	10 ± 0.8 mm
		D	32.5 ± 1.0 mm
		E	18.8 ± 0.6 mm
		F	29.7 ± 0.8 mm
		G	10 ± 1.0 mm
		H	

2. 電氣性能檢測項目: ELECTRICAL REQUIREMENTS:		測試儀器 TEST INSTRUMENTS	
<input type="checkbox"/> L		TEST FREQ	KHZ MHZ
<input type="checkbox"/> Q		TEST FREQ	KHZ MHZ
<input checked="" type="checkbox"/> Z	Z1= 100Ω MIN	KHZ 25 MHZ	Z2=200Ω MIN
	Z3= /	KHZ MHZ	Z4= /
溫度 TEMP	℃	濕度 HUMIDITY	%
線組 WINDING	Φ0.5x0.5TSx100L(mm)		
1. Q-METER: ○HP 4342A ○MQ-172 2. L.C.R. METER: ○HP 4284A 3. IMPEDANCE ANALYZER: ○HP 4396B ○HP 4191A ØE4991A ØAgilent 16194A-TESTFIXTURE 4. L-METER: ○TH 2817A 5. DIGITAL MINI-OHMMETER: ○VP2941A			

3. 外觀標準: 依下表對照檢索:
THE LIMIT OF BREAKAGE: CHECKED BELOW:

OD (mm)	0~5	5.1~10	10.1~15	15.1~20	20.1~25	25.1~30	30.1~35	35以上
缺陷面积 Defect area (mm ²)	≦1	≦2	≦3	≦4	≦5	≦6	≦7	≦8
缺陷个数 Number of defects (≦)	1	2	3	3	3	3	2	2


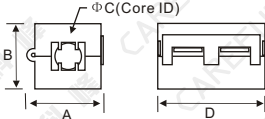
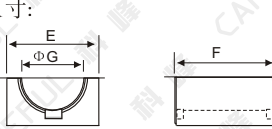
4. 材質特性 MATERIAL CHARACTERISTICS

材料牌號 Material	初始磁導率 Initial Permeability	比損耗因子 Relative Loss Factor	比溫度系數 Relative Temperature Coefficient	飽和磁通密度 Saturation Magnetic Flux Density	剩磁 Remanence	矯頑力 Coercivity	居裏溫度 Curie Temperature	電阻率 Electrical Resistivity	密度 Density
Unit symbol	μ_i ±20%	$\tan \delta / \mu_i$ ×10 ⁻⁶	$\alpha \mu_i \gamma$ ×10 ⁻⁶	Bs (MT)	Br (MT)	HC (A/m)	Tc (°C)	ρ (Ω·m)	d g/cm ³
F9	850	16 (0.1MHz)	5 - 10	280(1600A/m)	200	20	>130	>10 ⁵	4.6

A	首版First Edition	2024-10-16	Rosie
版本Rev.	變更內容說明Description of Change	日期Date	姓名Name

檢驗數據

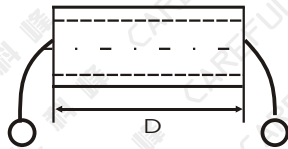
INSPECTION DATA

客戶名稱 CUSTOMER	LEPCOS		日期 DATE	2024.10.16.	數量 QUANTITY	5PCS
編號 SERIAL NO.	KF 24101636644		1.1. 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm):		1.2. 實物圖: The Sample::	
規格 ITEM	F9 SCNF 100		外殼尺寸:			
繞組 WINDING	Φ0.5x0.5TSx100L(mm)					
測試頻率 TEST FREQ	Z1=	KHZ 25 MHZ	Z2=	KHZ 100 MHZ	磁芯尺寸: 	
	Z3=	KHZ MHZ	Z4=	KHZ MHZ		
溫度 TEMP	℃	濕度 HUMIDITY	%			

項目 TEST ITEM	電氣性能 ELECTRIC CHARACTERISTICS				尺寸(單位:毫米) DIMENSION(unit:mm)							
	L(μH) (MH)	Z1(Ω)	Z2(Ω)	Z3(Ω)	Z4(Ω)	A	B	C	D	E	F	G
		100	200			25.0	23.0	10	32.5	18.8	29.7	10
+	/	/				1.0	1.0	0.8	1.0	0.6	0.8	1.0
-	0	0				1.0	1.0	0.8	1.0	0.6	0.8	1.0
1		119.2	234.6			21.56	23.40	10.20	33.50	18.76	29.80	9.90
2		119.6	235.0			21.63	23.55	10.15	33.40	18.79	29.78	10.13
3		120.8	235.2			21.70	23.29	10.05	33.25	18.89	29.79	9.81
4		120.1	234.8			21.58	23.63	10.23	33.26	18.81	29.81	9.91
5		120.4	234.4			21.82	23.68	10.24	31.99	18.82	29.87	10.13
6		119.2	235.2			21.63	23.52	10.22	31.96	18.78	29.73	10.12
7		119.6	234.7			21.69	23.47	10.27	33.28	18.85	29.79	10.06
8		120.4	235.3			21.59	23.51	10.14	33.41	18.86	29.84	9.95
9		120.3	235.1			21.77	23.54	10.19	33.20	18.78	29.78	9.89
10		119.0	234.5			21.85	23.52	10.11	33.30	18.87	29.84	10.01
\bar{X}		119.86	234.88			21.68	23.51	10.18	33.05	18.82	29.80	9.99
Y/N	Y	Y				Y	Y	Y	Y	Y	Y	Y

測試儀器:
TEST INSTRUMENTS:

E4991A+16194A



檢驗
INSPECTED

汪建琴

復核
CHECKED

周紀君

確認
APPROVED

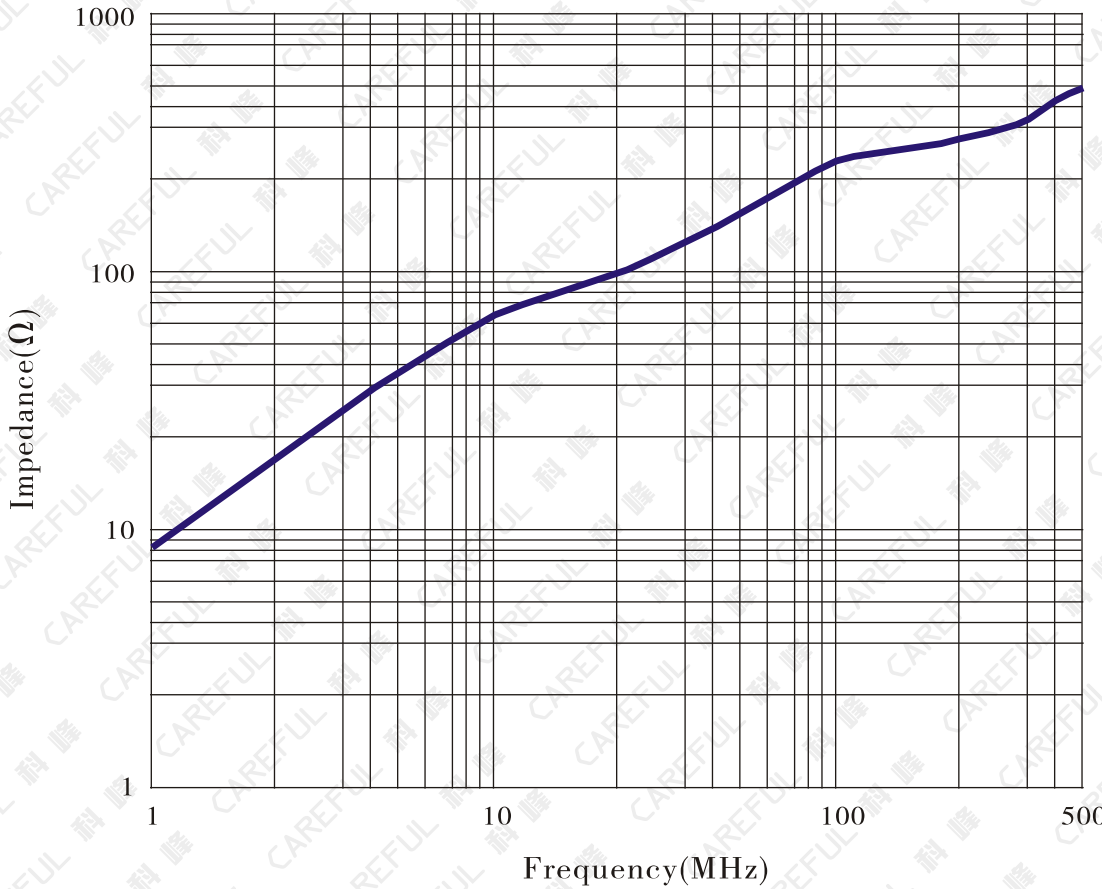
沈學泉

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阻抗 - 頻率曲線

IMPEDANCE V.S FREQUENCY (Z-Y)

客戶名稱 CUSTOMER	LEPCOS	日期 DATE	2024.10.16.
規格 ITEM	F9 SCNF 100	編號 SERIAL NO.	KF 24101636644



測試條件:
TESTING CONDITION:

- 測試儀器: E4991A+16194A
Testing Equipment:
- 測試頻率區間: 1-500MHz
Testing Frequency Range:
- 測試綫組: Φ0.5x0.5TSx100L(mm)
Testing Coil Specification:

說明Note:
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The Specification Approval is required to be sent back to the supplier with customer's chop or signature on it within 4 days after receiving it, or we will take it as approved by customer automatically.

測試 TESTED	復核 CHECKED	確認 APPROVED
汪建琴	周紀君	沈學泉

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