



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	F2-BP RH 16×17×9
客戶料號 CUS. P/N	
提出日期 DATE	Nov.05.2024.
編號 SERIAL NO.	KF 24110536743

出圖 DRAWING			承認 CUSTOMER APPROVE	
發行 MADE	復核 CHECKED	確認 APPROVED		
DATE: 2024年11月05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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JiaXing Careful Magnetism & Electron Co.,Ltd.

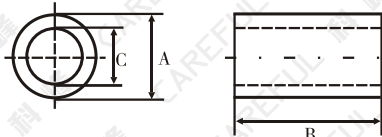

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承認書

SPECIFICATION FOR APPROVAL

客戶名稱 CUSTOMER	LEPCOS	日期 DATE	2024.11.05.
規格 ITEM	F2-BP RH 16×17×9	編號 SERIAL NO.	KF 24110536743
1.1. 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm): 		1.2. 實物圖: The Sample:: 	
		A	16 ± 0.5 mm
		B	17 ± 0.5mm
		C	9 ± 0.4 mm
		D	
		E	
		F	
		G	
		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	1. Q-METER: ○HP 4342A ○MQ-172				
<input type="checkbox"/> Q		TEST FREQ	KHZ MHZ	2. L.C.R. METER: ○HP 4284A				
<input checked="" type="checkbox"/> Z	Z1=35Ω MIN	KHZ 25 MHZ	Z2= 75Ω MIN	KHZ 100 MHZ	3. IMPEDANCE ANALYZER: ○HP 4396B ○HP 4191A ○E4991A ○Agilent 16194A-TESTFIXTURE			
	Z3=	KHZ MHZ	Z4=	KHZ MHZ	4. L-METER: ○TH 2817A			
溫度 TEMP	℃	濕度 HUMIDITY	%	5. DIGITAL MINI-OHMMETER: ○VP2941A				
綫組 WINDING	Φ0.5x0.5TSx100L(mm)							

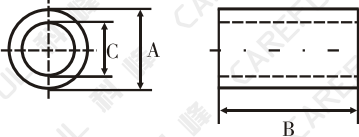

3. 外觀標準: 依下表對照檢索: THE LIMIT OF BREAKAGE: CHECKED BELOW:								
OD (mm)	0~5	5.1~10	10.1~15	15.1~20	20.1~25	25.1~30	30.1~35	35以上
缺陷面积 Defect area (mm ²)	≦1	≦2	≦3	≦4	≦5	≦6	≦7	≦8
缺陷个数 Number of defects (≦)	1	2	3	3	3	3	2	2

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
F2	650	20 (0.1MHz)	2 - 5	260(1600A/m)	150	35	>140	>10 ⁵	4.6

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檢驗數據

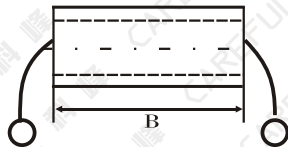
INSPECTION DATA

客戶名稱 CUSTOMER	LEPCOS		日期 DATE	2024.11.05.	數量 QUANTITY	10PCS
編號 SERIAL NO.	KF 24110536743		形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm):		實物圖: The Sample:;	
規格 ITEM	F2-BP RH 16x17x9					
線組 WINDING	Φ0.5x0.5TSx100L(mm)					
測試頻率 TEST FREQ	Z1= 25 KHZ 25 MHZ	Z2= 100 KHZ 100 MHZ				
	Z3= / KHZ / MHZ	Z4= / KHZ / MHZ				
溫度 TEMP	°C	濕度 HUMIDITY	%			

項目 TEST ITEM	電氣性能 ELECTRIC CHARACTERISTICS						尺寸(單位:毫米) DIMENSION(unit:mm)					
	Q	L(μH) (MH)	Z1(Ω)	Z2(Ω)	Z3(Ω)	Z4(Ω)	A	B	C	D	E	F
			35	75			16	17	9			
+			/	/			0.5	0.5	0.4			
-			0	0			0.5	0.5	0.4			
1			54.3	113.2			16.02	16.86	8.95			
2			55.6	112.9			15.94	16.84	8.98			
3			54.3	112.5			16.01	16.93	8.99			
4			54.2	113.0			16.00	16.85	9.03			
5			53.6	113.4			15.99	16.87	9.00			
6			53.3	114.0			15.95	16.91	8.95			
7			54.0	114.1			15.98	16.92	9.01			
8			55.2	112.9			15.93	16.94	8.98			
9			55.1	113.7			16.03	16.86	9.05			
10			53.9	114.2			16.05	16.85	9.07			
\bar{X}			54.35	113.39			15.99	16.88	9.00			
Y/N			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

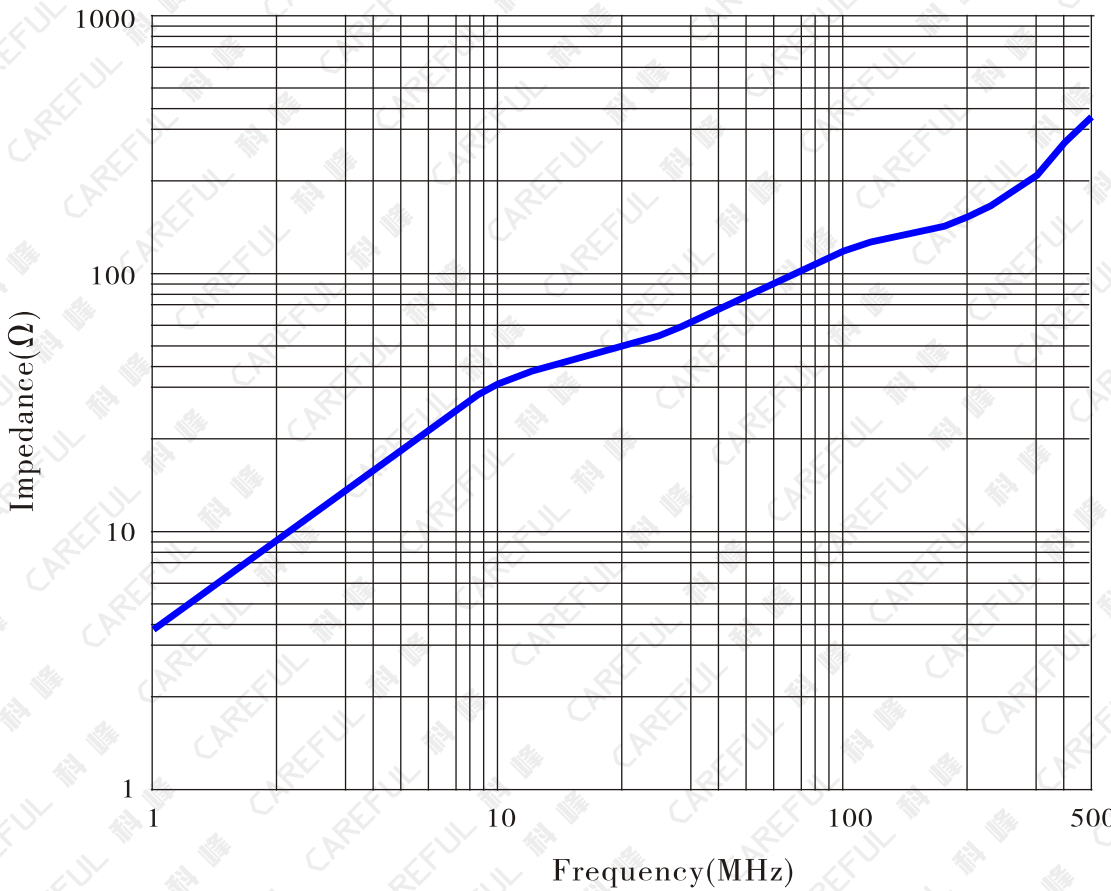
沈學泉

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阻抗 - 頻率曲綫

IMPEDANCE V.S FREQUENCY (Z-Y)

客戶名稱 CUSTOMER	LEPCOS	日期 DATE	2024.11.05.
規格 ITEM	F2-BP RH 16x17x9	編號 SERIAL NO.	KF 24110536743



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:

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

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