



ISO9001-2015
Certificate No:672022020207194

No.T52210311961TC Date;OCT 12,2022 No.T52310270397TC Date;apr 15,2023

承認書

SPECIFICATION FOR APPROVAL

客户名稱
CUSTOMER

品名規格
DESCRIPTION F9 SCRC 70B

客户料號
CUS. P/N

提出日期
DATE 2025.05.12

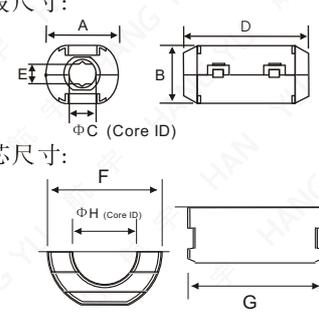
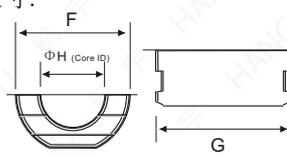
出圖 RDAWING		
發行 MADE	復核 CHECKED	確認 APPROVED
李光赫	方煜镗	梁琼
销售部：张 丽		

承 認 CUSTOMER APPROVE



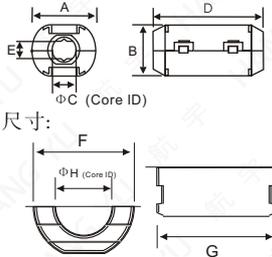
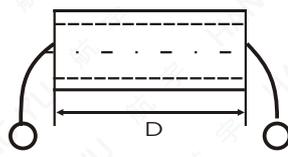
承 認 書

SPECIFICATION FOR APPROVAL

客戶名稱 CUSTOMER		日期 DATE	2025.5.12																															
規格 ITEM	F9 SCRC 70B	編號 SERIAL NO.																																
<p>1.1. 形狀尺寸(單位/毫米): SHAPE & DIMENSION(unit/mm):</p> <p>1.2. 實物圖: The Sample::</p> <p>外觀尺寸: Core size:</p>  <p>磁芯尺寸: Core size:</p> 			A	16.5 ± 1.0 mm																														
			B	14.0 ± 1.0 mm																														
			C	7.0 ± 0.8 mm																														
			D	30.0 ± 1.0 mm																														
			E	2.5 ± 1.0 mm																														
			F	13 ± 0.5 mm																														
			G	23 ± 0.6 mm																														
			H	7.0 ± 0.5 mm																														
<p>2. 電氣性能檢測項目: ELECTRICAL REQUIREMENTS:</p>		<p>測試儀器 TEST INSTRUMENTS</p> <p>1. Q-METER: ○ HP 4342A ○ MQ-172</p> <p>2. L.C.R. METER: ○ HP 4284A</p> <p>3. IMPEDANCE ANALYZER: ○ HP 4396B ○ HP 4191A ○ E4991A ○ Agilent 16194A-TESTFIXTURE</p> <p>4. L-METER: ○ TH 2817A</p> <p>5. DIGITAL MINI-OHM METER: ○ VP2941A</p>																																
<input type="checkbox"/> L		TEST FREQ		KHZ MHZ																														
<input type="checkbox"/> Q		TEST FREQ		KHZ MHZ																														
<input checked="" type="checkbox"/> Z	Z1=65Ω MIN KHZ 25MHZ	Z2=150Ω MIN KHZ 100MHZ																																
	Z3= / KHZ MHZ	Z4= / KHZ MHZ																																
溫度 TEMP	℃	濕度 HUMIDITY		%																														
繞組 WINDING		Φ0.5x0.5TSx100L(mm)																																
<p>3. 外觀標準: 依下表對照檢索: THE LIMIT OF BREAKAGE: CHECKED BELOW:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th style="border: 1px dashed black;">OD (mm)</th> <th style="border: 1px dashed black;">0~5</th> <th style="border: 1px dashed black;">5.1~10</th> <th style="border: 1px dashed black;">10.1~15</th> <th style="border: 1px dashed black;">15.1~20</th> <th style="border: 1px dashed black;">20.1~25</th> <th style="border: 1px dashed black;">25.1~30</th> <th style="border: 1px dashed black;">30.1~35</th> <th style="border: 1px dashed black;">35以上</th> </tr> <tr> <td style="border: 1px dashed black;">缺陷面积 Defect area (mm²)</td> <td style="border: 1px dashed black;">≦1</td> <td style="border: 1px dashed black;">≦2</td> <td style="border: 1px dashed black;">≦3</td> <td style="border: 1px dashed black;">≦4</td> <td style="border: 1px dashed black;">≦5</td> <td style="border: 1px dashed black;">≦6</td> <td style="border: 1px dashed black;">≦7</td> <td style="border: 1px dashed black;">≦8</td> </tr> <tr> <td style="border: 1px dashed black;">缺陷个数 Number of defects (≦)</td> <td style="border: 1px dashed black;">1</td> <td style="border: 1px dashed black;">2</td> <td style="border: 1px dashed black;">3</td> <td style="border: 1px dashed black;">2</td> <td style="border: 1px dashed black;">2</td> </tr> </table>					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			
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<p>4. 材質特性 MATERIAL CHARACTERISTICS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>材料牌號 Material</th> <th>初始磁導率 Initial Permeability</th> <th>比損耗因子 Relative Loss Factor</th> <th>比溫度系數 Relative Temperature Coefficient</th> <th>飽和磁通密度 Saturation Magnetic Flux Density</th> <th>剩磁 Remanence</th> <th>矯頑力 Coercivity</th> <th>居裏溫度 Curie Temperature</th> <th>電阻率 Electrical Resistivity</th> <th>密度 Density</th> </tr> <tr> <th>Unit symbol</th> <th>μ_i ±20%</th> <th>Tan δ / μ_i ×10⁶</th> <th>α μ_i γ ×10⁶</th> <th>B_s (MT)</th> <th>Br (MT)</th> <th>H_c (A/m)</th> <th>T_c (°C)</th> <th>ρ (Ω·m)</th> <th>d g/cm³</th> </tr> </thead> <tbody> <tr> <td>F9</td> <td>1000</td> <td>16 (0.1MHz)</td> <td>5 - 10</td> <td>280(1600A/m)</td> <td>200</td> <td>20</td> <td>>130</td> <td>>10⁵</td> <td>4.6</td> </tr> </tbody> </table>					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 δ / μ _i ×10 ⁶	α μ _i γ ×10 ⁶	B _s (MT)	Br (MT)	H _c (A/m)	T _c (°C)	ρ (Ω·m)	d g/cm ³	F9	1000	16 (0.1MHz)	5 - 10	280(1600A/m)	200	20	>130	>10 ⁵	4.6
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檢驗數據

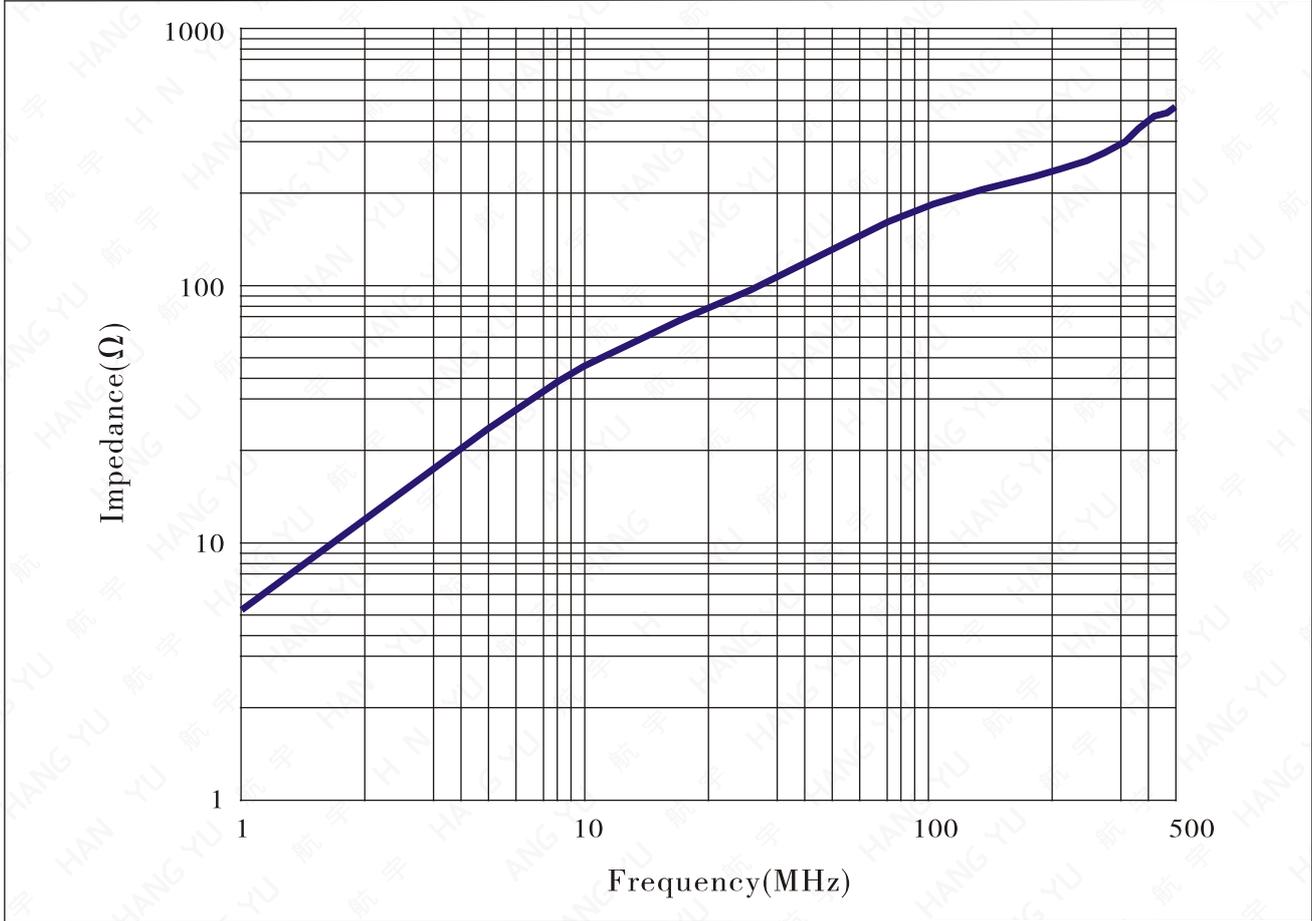
INSPECTION DATA

客戶名稱 CUSTOMER				日期 DATE	2025.5.12			數量 QUANTITY	5PCS			
編號 SERIAL NO.				形狀尺寸(單位:毫米): SHAPE & DIMENSION(unit/mm): 外觀尺寸: 					實物圖: The Sample: 			
規格 ITEM												
綫組 WINDING				Φ0.5x0.5TSx100L(mm)								
測試頻率 TEST FREQ		Z1= $\frac{\text{KHZ}}{25\text{MHZ}}$		Z2= $\frac{\text{KHZ}}{100\text{MHZ}}$								
		Z3= $\frac{\text{KHZ}}{\text{MHZ}}$		Z4= $\frac{\text{KHZ}}{\text{MHZ}}$								
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)							
	Z1(Ω)	Z2(Ω)	Z3(Ω)	Z4(Ω)	A	B	C	D	E	F	G	H
	65	150			16.5	14.0	7.0	30.0	2.5	13	23.0	7.0
+	/	/			1.0	1.0	0.8	1.0	1.0	0.5	0.6	0.5
-	0	0			1.0	1.0	0.8	1.0	1.0	0.5	0.6	0.5
1	85.8	163.5			16.50	14.40	6.92	30.08	2.15	13.01	23.11	6.92
2	86.2	164.2			16.40	14.30	6.95	30.06	2.21	13.10	23.20	6.95
3	86.5	164.6			16.39	14.31	6.90	30.07	2.27	13.06	23.16	6.90
4	86.3	162.7			16.37	14.33	6.93	30.20	2.13	13.12	23.15	6.93
5	86.1	164.4			16.45	14.35	6.92	30.14	2.14	13.06	23.14	6.92
6	85.6	164.8			16.43	14.37	6.99	30.12	2.10	12.95	23.09	6.99
7	85.9	162.8			16.48	14.39	7.01	30.27	2.05	12.99	23.00	7.01
8	86.6	163.7			16.36	14.32	7.08	30.29	2.09	12.94	22.95	7.08
9	86.4	164.1			16.54	14.34	7.04	30.32	2.12	12.89	22.99	7.04
10	86.7	163.2			16.52	14.36	7.07	30.18	2.28	12.98	22.99	7.07
\bar{X}	86.35	163.67			16.44	14.34	6.98	30.17	2.15	13.01	23.07	6.98
Y/N	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y
測試儀器: TEST INSTRUMENTS: E4991A+16194A 				檢 驗 INSPECTED		復 核 CHECKED		確 認 APPROVED				
				李光赫		方煜镗		梁琼				

阻抗 - 頻率曲綫

IMPEDANCE V.S FREQUENCY (Z-Y)

客戶名稱 CUSTOMER		日期 DATE	2025.5.12
規格 ITEM	F9 SCRC 70B	編號 SERIAL NO.	



測試條件:
TESTING CONDITION:

1. 測試儀器: E4991A+16194A
Testing Equipment:

2. 測試頻率區間: 1-500MHz
Testing Frequency Range:

3. 測試綫組: Φ0.5x0.5TSx100L(mm)
Testing Coil Specification:

客戶簽回欄	确认	审核	測試 TESTED	復核 CHECKED	確認 APPROVED
			李光赫	方煜镗	梁琼
www.yucor.es.com.cn					

深圳市航宇磁电有限公司