



深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGY CO., LTD

Tel: 0755-27597601 Fax: 0755-27597491

## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

磁环

\_\_\_\_\_

规格型号 Part No:

SHKJ 2017-0830B

\_\_\_\_\_

#### 贵公司承认印 Approval signatures

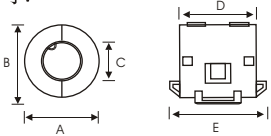
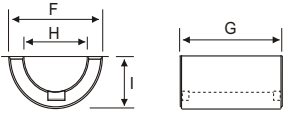

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	钟华华	
批准/Approved	罗孝金	

# 承認書

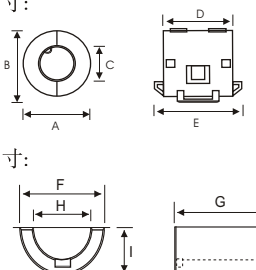
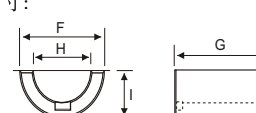

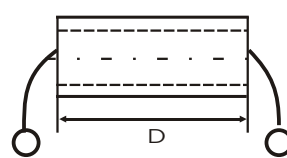
## SPECIFICATION FOR APPROVAL

客戶名稱 CUSTOMER		日期 DATE	2021.05.10.																															
規格 ITEM	SHKJ 2017-0830B	編號 SERIAL NO.																																
<p>1.1. 形狀尺寸(單位/毫米): SHAPE &amp; DIMENSION(unit/mm):</p> <p>1.2. 實物圖: The Sample::</p> <p>外殼尺寸:</p>  <p>磁芯尺寸:</p>  		A	19.5 ± 1.0 mm																															
		B	23.0 ± 1.0 mm																															
		C	8.0 ± 0.8 mm																															
		D	17 ± 1.0 mm																															
		E	23 ± 1.0 mm																															
		F	16 ± 0.6 mm																															
		G	13 ± 0.5 mm																															
		H	8 ± 0.5 mm																															
		I	8 ± 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    ØE4991A ØAgilent 16194A-TESTFIXTURE</p> <p>4. L-METER: ○ TH 2817A</p> <p>5. DIGITAL MINI-OHMMETER: ○ VP2941A</p>																																
<input type="checkbox"/> L		TEST FREQ	KHZ MHZ																															
<input type="checkbox"/> Q		TEST FREQ	KHZ MHZ																															
<input checked="" type="checkbox"/> Z	Z1= 48Ω MIN    KHZ 25MHZ	Z2=150Ω MIN    KHZ 100MHZ																																
	Z3= /    KHZ MHZ	Z4= /    KHZ MHZ																																
溫度 TEMP	℃	濕度 HUMIDITY	%																															
<p>綫組 WINDING</p> <p style="text-align: center;">Φ0.8x0.5TSx220 L(mm)</p>																																		
<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 orange;">OD (mm)</th> <th style="border: 1px dashed orange;">0~5</th> <th style="border: 1px dashed orange;">5.1~10</th> <th style="border: 1px dashed orange;">10.1~15</th> <th style="border: 1px dashed orange;">15.1~20</th> <th style="border: 1px dashed orange;">20.1~25</th> <th style="border: 1px dashed orange;">25.1~30</th> <th style="border: 1px dashed orange;">30.1~35</th> <th style="border: 1px dashed orange;">35以上</th> </tr> <tr> <td style="border: 1px dashed orange;">缺陷面积 Defect area (mm<sup>2</sup>)</td> <td style="border: 1px dashed orange;">≦1</td> <td style="border: 1px dashed orange;">≦2</td> <td style="border: 1px dashed orange;">≦3</td> <td style="border: 1px dashed orange;">≦4</td> <td style="border: 1px dashed orange;">≦5</td> <td style="border: 1px dashed orange;">≦6</td> <td style="border: 1px dashed orange;">≦7</td> <td style="border: 1px dashed orange;">≦8</td> </tr> <tr> <td style="border: 1px dashed orange;">缺陷个数 Number of defects (≦)</td> <td style="border: 1px dashed orange;">1</td> <td style="border: 1px dashed orange;">2</td> <td style="border: 1px dashed orange;">3</td> <td style="border: 1px dashed orange;">3</td> <td style="border: 1px dashed orange;">3</td> <td style="border: 1px dashed orange;">3</td> <td style="border: 1px dashed orange;">2</td> <td style="border: 1px dashed orange;">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 <sup>2</sup> )	≦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<sub>i</sub> ±20%</th> <th>Tan δ / μ<sub>i</sub> ×10<sup>-6</sup></th> <th>α μ<sub>i</sub> γ ×10<sup>-6</sup></th> <th>B<sub>s</sub> (MT)</th> <th>Br (MT)</th> <th>HC (A/m)</th> <th>T<sub>c</sub> (°C)</th> <th>ρ (Ω · m)</th> <th>d g/cm<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>F9</td> <td>850</td> <td>16 (0.1MHz)</td> <td>5 - 10</td> <td>280(1600A/m)</td> <td>200</td> <td>20</td> <td>&gt;130</td> <td>&gt;10<sup>5</sup></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 <sub>i</sub> ±20%	Tan δ / μ <sub>i</sub> ×10 <sup>-6</sup>	α μ <sub>i</sub> γ ×10 <sup>-6</sup>	B <sub>s</sub> (MT)	Br (MT)	HC (A/m)	T <sub>c</sub> (°C)	ρ (Ω · m)	d g/cm <sup>3</sup>	F9	850	16 (0.1MHz)	5 - 10	280(1600A/m)	200	20	>130	>10 <sup>5</sup>	4.6
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# 檢驗數據

## INSPECTION DATA

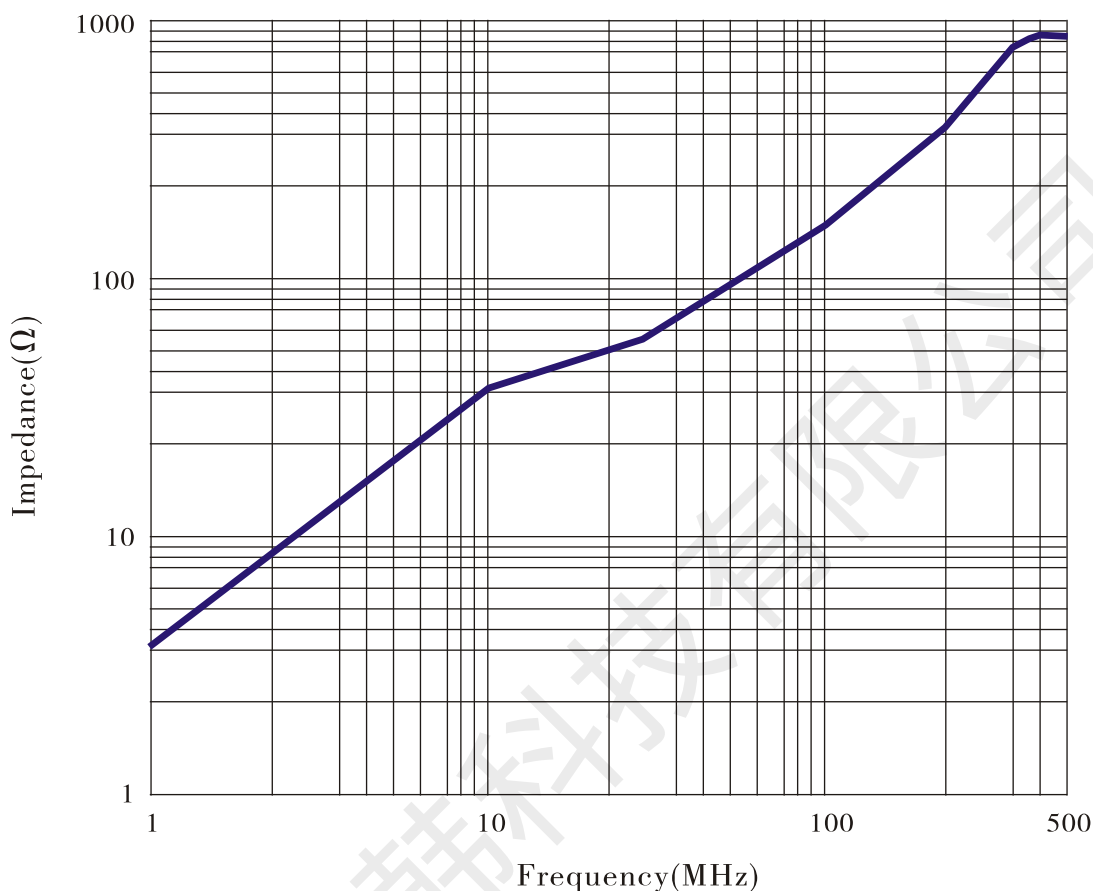
客戶名稱 CUSTOMER				日期 DATE	2021.05.10.			數量 QUANTITY	5PCS				
編號 SERIAL NO.				1.1. 形狀尺寸(單位:毫米): SHAPE & DIMENSION(unit/mm): 外殼尺寸:  磁芯尺寸: 					1.2. 實物圖: The Sample:: 				
規格 ITEM	SHKJ 2017-0830B												
線組 WINDING	Φ0.8x0.5TSx220L(mm)												
測試頻率 TEST FREQ	Z1=	$\frac{\text{KHZ}}{25 \text{ MHZ}}$	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)	A	B	C	D	E	F	G	H	I	
	48	150		19.5	23.0	8.0	17	23	16	13	8	8	
+	/	/		1.0	1.0	0.8	1.0	1.0	0.6	0.5	0.5	0.5	
-	0	0		1.0	1.0	0.8	1.0	1.0	0.6	0.5	0.5	0.5	
1	59.5	152.3		18.89	22.96	8.55	16.64	22.86	16.12	13.13	7.90	8.12	
2	59.4	156.0		19.40	22.92	8.33	16.67	22.90	16.10	13.15	7.93	8.15	
3	64.0	154.2		19.39	22.95	8.50	16.72	22.85	16.16	13.12	7.88	8.16	
4	64.2	154.0		19.37	22.97	8.44	16.69	22.83	16.19	13.18	7.83	8.14	
5	63.9	153.6		19.35	23.03	8.37	16.60	22.88	16.15	13.16	7.92	8.13	
6	58.9	152.9		19.33	23.06	8.08	16.71	23.20	16.20	13.20	7.89	8.15	
7	58.7	153.4		19.38	22.73	8.04	16.91	23.19	16.25	13.09	7.91	8.18	
8	59.6	151.6		18.92	22.67	8.07	16.75	23.10	16.28	13.12	7.93	8.20	
9	59.5	151.7		18.79	22.68	8.45	16.79	23.08	16.25	13.20	8.02	8.10	
10	60.2	151.3		18.98	23.05	8.30	16.80	23.04	16.23	13.21	8.03	8.14	
$\bar{X}$	60.79	153.1		19.18	22.90	8.31	16.72	22.99	16.19	13.15	7.92	8.14	
Y/N	Y	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	
								吳小平		钟华华		罗孝金	

深圳市首韩科技有限公司

# 阻抗 - 頻率曲綫

## IMPEDANCE V.S FREQUENCY (Z-Y)

客戶名稱 CUSTOMER		日期 DATE	2021.05.10.
規格 ITEM	SHKJ 2017-0830B	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: Φ0.8x0.5TSx 220L(mm)  
Testing Coil Specification:

說明Note:

本承認書在客戶收到7天之內，須簽章返回，逾期視爲默認。  
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.

測試 TESTED	復核 CHECKED	確認 APPROVED
吴小平	钟华华	罗孝金

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