

# SPECIFICATION FOR APPROVAL

CUSTOMER: \_\_\_\_\_

PART NO: \_\_\_\_\_

DESCRIPTION: HLQH252012-1R0M-NP

SUBMIT NO: \_\_\_\_\_

QUANTITY: \_\_\_\_\_ **PCS**

DATE: \_\_\_\_\_

方瑞达电子（香港）有限公司		
FONRITA ELECTRONICS (H.K) CO., LTD.		
MADE	CHECKED	APPROVED
张达	黎敏	邓锋

贵 公 司 承 认 栏		
APPROVED BY MANGEMNT		
MADE	CHECKED	APPROVED



方瑞达电子（香港）有限公司

FONRITA ELECTRONICS (H.K) CO., LTD.

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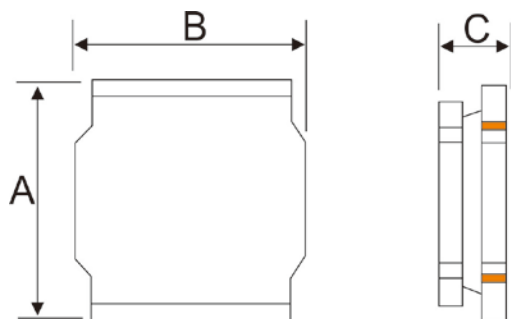
TEL:0755-26617190

FAX:0755-26162625

<b>CUSTOMER :</b>		<b>PART NO.</b>	
<b>SPECIFICATIONS</b>		<b>DATE</b>	
<b>PART NAME</b>	<b>DATA SHEET</b>	<b>SPEC(TYPE)</b>	HLQH252012-1R0M-NP

**TEST INSTRUMENT**

- 1. HP 4285A PRECISION LCR METER
- 2. WAYNE PMA3260A LCR METER
- 3. ZENTECH 9052 PROGRAMMABLE AUTO SAFETY TESTER
- 4. WAYNE KERR 3265A CURRENT SOURCE

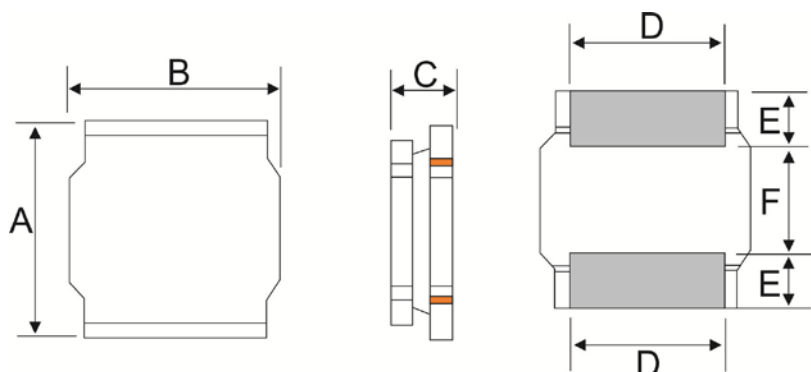


ELECTRICAL CHARACTERISTICS						DIMENSION		
ITEM	L (μH)	RDC(Ω)	Isat (A)	Irms (A)	SRF (MHz)	A	B	C
SPEC.	1MHz/1V	Max.	Max.	Max.	Min.	m/m	m/m	m/m
	1.0±20%	0.054	3.60	3.00	52	2.5±0.2	2.0±0.2	1.2Max.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
$\bar{X}$								
R								
TEST CONDITION		TEMP:	25°C			HUMIDITY:	50%	
DRAWN BY			CHECKED BY			APPROVED BY		
张达			黎敏			邓锋		



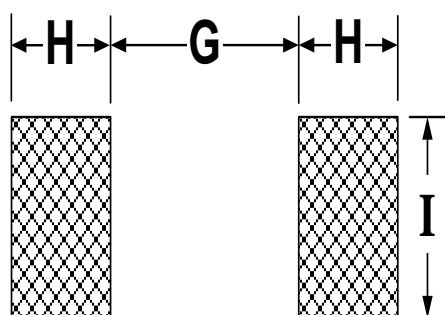
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<b>SPECIFICATIONS</b>		DATE	
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■ SHAPE&DIMENSION



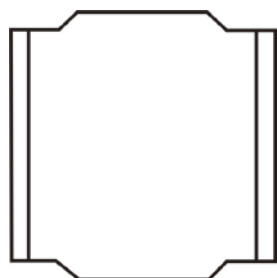
<b>A</b>	2.5±0.2
<b>B</b>	2.0±0.2
<b>C</b>	1.2Max.
<b>D</b>	1.5±0.2
<b>E</b>	0.8±0.2
<b>F</b>	0.8±0.2

■ LAND PATTERN



<b>H</b>	0.85
<b>G</b>	0.80
<b>I</b>	2.00

■ MARK

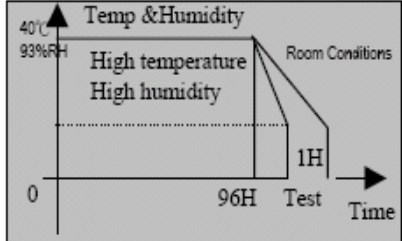
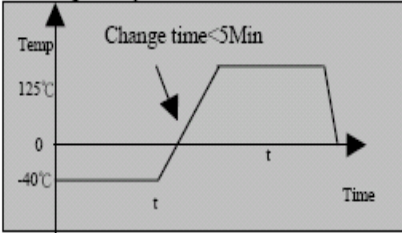
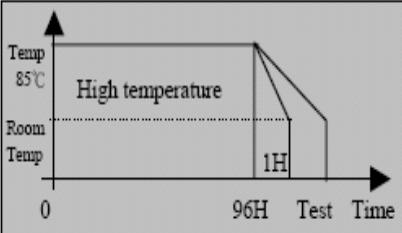


<b>CUSTOMER :</b>		<b>PART NO.</b>	
<b>SPECIFICATIONS</b>		<b>DATE</b>	
<b>PART NAME</b>	<b>MATERIAL LIST</b>	<b>SPEC(TYPE)</b>	HLQH252012-1R0M-NP

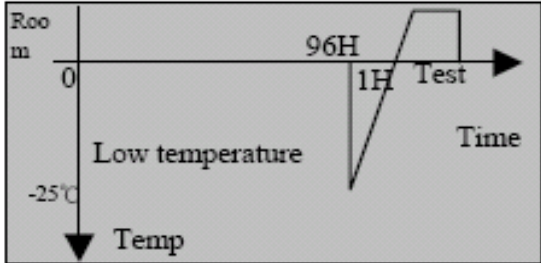
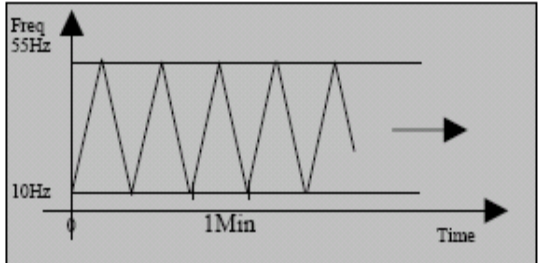
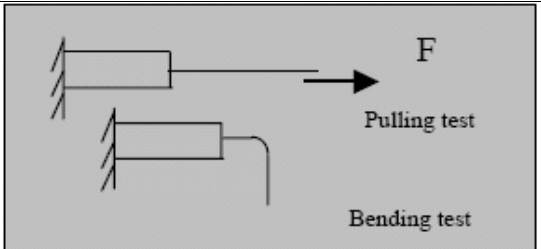
■ **MATERIAL LIST**

ITEM	MATERIAL	SUPPLIER OF MATERIAL	UL NO.
CORE	DR 2.5*2.0*1.2	HORNG YIH ELECTRONICS	
		CO., LTD. OR EQUIA	
WIRE	MAGNET WIRE 2UEW	JUNG SHING WIRE CO LTD	E174837
		PACIFIC ELECTRICAL CO., LTD.	E84081
		TA YA ELECTRICAL CO., LTD DIFA	E84201
		RONSEN SUPER MICRO-WIER CO., LTD	E164502(R)
Wire Temperature	180°C		
Classification			
SOLDER	Sn/99.7	SHENMAO TECHNOLOGY CO., LTD. OR EQUIA	
TUBE		WOER HEAT-SHRINKABLE MATERIAL OR EQUIA	E180908
BASE		WINKING INDUSTRIAL CO., LTD.	



<b>CUSTOMER :</b>		<b>PART NO.</b>	
<b>SPECIFICATIONS</b>		<b>DATE</b>	
<b>PART NAME</b>	<b>RELIABILITY TEST</b>	<b>SPEC(TYPE)</b>	HLQH252012-1R0M-NP
<b>ITEM</b>	<b>REQUIRED CHARACTERISTICS</b>	<b>TEST METHOD</b>	
HUMIDITY TEST	<ol style="list-style-type: none"> <li>1. NO DEFORMATION OR CHANGE IN APPEARANCE.</li> <li>2. <math>\Delta L/L \leq 10\%</math></li> <li>3. <math>\Delta Q/Q \leq 30\%</math></li> <li>4. <math>\Delta DCR/DCR \leq 10\%</math></li> </ol>	<ol style="list-style-type: none"> <li>1. DRY OVEN AT A TEMPERATURE OF <math>40^{\circ}\text{C} \pm 5^{\circ}\text{C}</math> FOR 24 HOURS.</li> <li>2. MEASUREMENTS AT THE END OF THIS PERIOD</li> <li>3. EXPOSURE: TEMPERATURE: <math>40^{\circ}\text{C} \pm 2^{\circ}\text{C}</math>, HUMIDITY: <math>93 \pm 3\% \text{RH}</math> TIME: <math>96 \pm 2</math> HOURS.</li> <li>4. TESTED WHILE THE SPECIMENS ARE STILL IN THE CHAMBER</li> <li>5. TESTED NOT LESS THAN 1 HOUR, NOR MORE THAN 2 HOURS AT ROOM TEMPERATURE.</li> </ol> 	
THERMAL SHOCK TEST	<ol style="list-style-type: none"> <li>1. NO CASE DEFORMATION OR APPEARANCE CHANGE IN</li> <li>2. <math>\Delta L/L \leq 10\%</math></li> <li>3. <math>\Delta Q/Q \leq 30\%</math></li> <li>4. <math>\Delta DCR/DCR \leq 10\%</math> FOR T:WEIGHT <math>\leq 28\text{G}:15\text{Min}</math>; <math>28\text{G} \leq \text{WEIGHT} \leq 136\text{G}:30\text{Min}</math></li> </ol>		
HIGH TEMPERATURE STORAGE TEST	<ol style="list-style-type: none"> <li>1. NO DEFORMATION OR CHANGE IN APPEARANCE.</li> <li>2. <math>\Delta L/L \leq 10\%</math></li> <li>3. <math>\Delta Q/Q \leq 30\%</math></li> <li>4. <math>\Delta DCR/DCR \leq 10\%</math></li> </ol>	TEMPERATURE: $85 \pm 2^{\circ}\text{C}$ TIME: $96 \pm 2$ HOURS TESTED NOT LESS THAN 1 HOUR, NOR MORE THAN 2 HOURS AT ROOM TEMPERATURE. 	



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<b>SPECIFICATIONS</b>		<b>DATE</b>	
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LOW TEMPERATURE STORAGE TEST	1. NO DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	TEMPERATURE:-25±2°C TIME: 96 ± 2 HOURS TESTED NOT LESS THAN 1 HOUR, NOR MORE THAN 2 HOURS ATTEMPERATURE. ROOM TEMPERATURE. 	
VIBRATION TEST	1. NO CASE DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	APPLY FREQUENCY 10~55Hz. 0.75mm AMPLITUDE IN EACH OF PERPENDICULAR DIRECTION FOR 2 HOURS. (TOTAL 6 HOURS) 	
TERMINAL STRENGTH	1. TERMINAL SHOULD NOT COME OUT 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	A. PULL FORCE:0.45Kg;THE FORCE SHALL BE APPLIED GRADUALLY TO THE TERMINAL AND THEN MAINTAINED FOR 10 SECONDS.  C. WIRE-LEAD BEND:0.23Kg, THE RATE OF BENDING SHALL BE APPROXIMATELY 3 SECONDS PER BEND IN EACH DIRECTION. THE LOAD SHALL BE SUSPENDED AT A POINT WITHIN 1/4 INCH FROM THE FREE END OF THE TERMINAL. 	



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HEAT ENDURANCE OF FLOW SOLDERING	1. NO CASE DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	1. DIP PADS IN FLUX THEN DIP IN SOLDER POT AT $260 \pm 5^\circ\text{C}$ FOR 10 SECONDS. 2. SOLDER: Sn (96)/Ag(4) 3. FLUX: ROSIN FLUX	
SOLDERABILITY TEST	TERMINALS AREA MUST HAVE 95% SOLDER COVERAGE.	1. DIP PADS IN FLUX THEN DIP IN SOLDER POT AT $245 \pm 5^\circ\text{C}$ FOR 5 SECONDS. 2. SOLDER: Sn(96)/Ag(4) 3. FLUX: ROSIN FLUX	

RECOMMENDED REFLOW PROFILE

