

# SPECIFICATION FOR APPROVAL

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

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

DESCRIPTION: FDRH4D28-3R3N-NP

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

QUANTITY: \_\_\_\_\_

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., LIMITED

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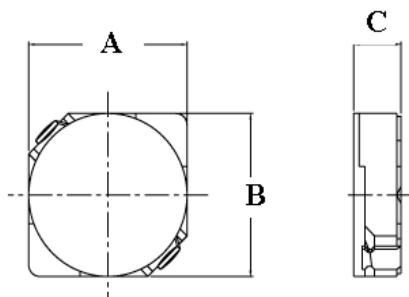
TEL:0755-26617190

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>	FDRH4D28-3R3N-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)	IDC(A)	A	B	C	
SPEC.	100KHz/0.1V	Max.	Max.	m/m	m/m	m/m	
	3.3±30%	0.0492 <sup>+0</sup>	1.65 <sup>-0</sup>	4.7±0.3	4.7±0.3	3.0Max.	
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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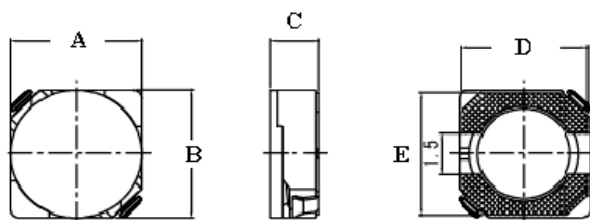
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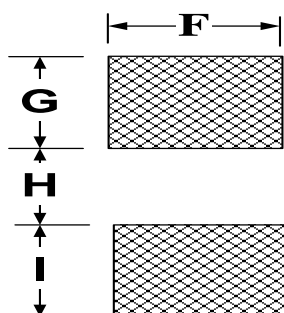
CUSTOMER :		PART NO.	
<b>SPECIFICATIONS</b>		DATE	
PART NAME	DATA SHEET	SPEC(TYPE)	FDRH4D28-3R3N-NP

■ **SHAPE&DIMENSION**



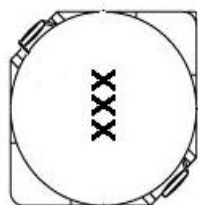
<b>A</b>	4.7±0.3
<b>B</b>	4.7±0.3
<b>C</b>	3.0Max
<b>D</b>	4.5
<b>E</b>	4.5

■ **LAND PATTERN**



<b>F</b>	5.3
<b>G</b>	1.9
<b>H</b>	1.5
<b>I</b>	1.9

■ **MARK**



MARK COLOR : BLACK or WHITE



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<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>	FDRH4D28-3R3N-NP

■ **MATERIAL LIST**

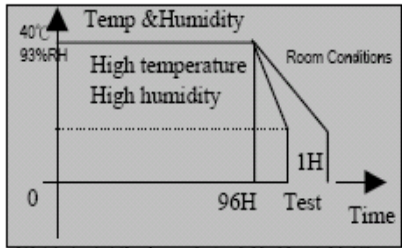
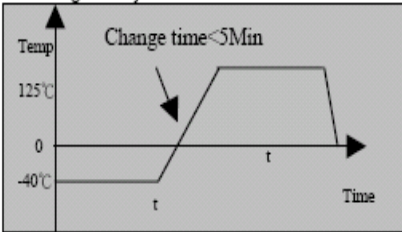
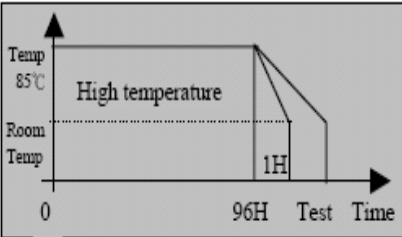
ITEM	MATERIAL	SUPPLIER OF MATERIAL	UL NO.
CORE	DR 4.6*2.7	HORNG YIH ELECTRONICS	
	RI 4.7*2.5*3.8	CO., LTD. OR EQUIA	
WIRE	MAGNET WIRE 2UEW	JUNG SHING WIRE CO LTD	E174837
		PACIFIC ELECTRICAL CO., LTD.	E84081
		TA YA ELECTRICAL CO., LTD DIFA	E84201
		RONSEN SUPER MICRO-WIER CO., LTD	E164502(R)
Wire Temperature	155°C		
Classification			
SOLDER	Sn/99.7	SHENMAO TECHNOLOGY CO., LTD. OR EQUIA	
TUBE		WOER HEAT-SHRINKABLE MATERIAL OR EQUIA	E180908
BASE	C5191R	WINKING INDUSTRIAL CO., LTD.	



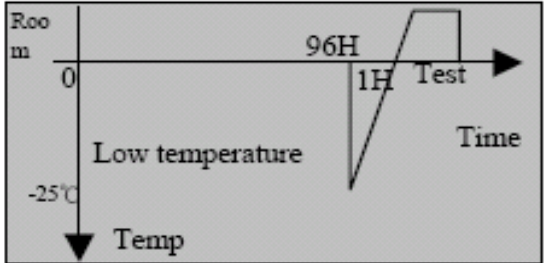
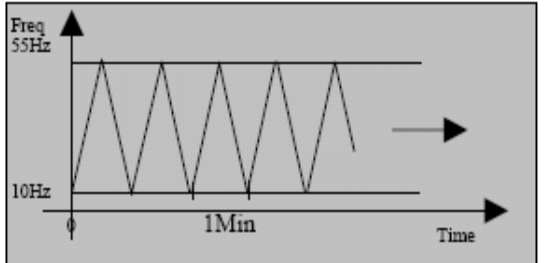
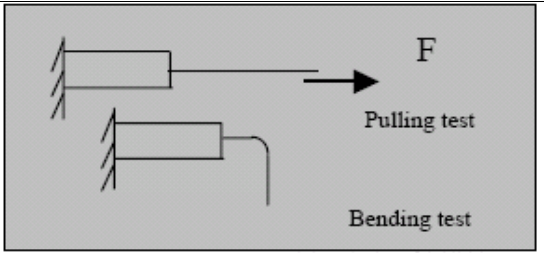
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<b>CUSTOMER :</b>		<b>PART NO.</b>	
<b>SPECIFICATIONS</b>		<b>DATE</b>	
<b>PART NAME</b>	<b>RELIABILITY TEST</b>	<b>SPEC(TYPE)</b>	<b>FDRH4D28-3R3N-NP</b>
<b>ITEM</b>	<b>REQUIRED CHARACTERISTICS</b>	<b>TEST METHOD</b>	
HUMIDITY TEST	<ol style="list-style-type: 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. 	

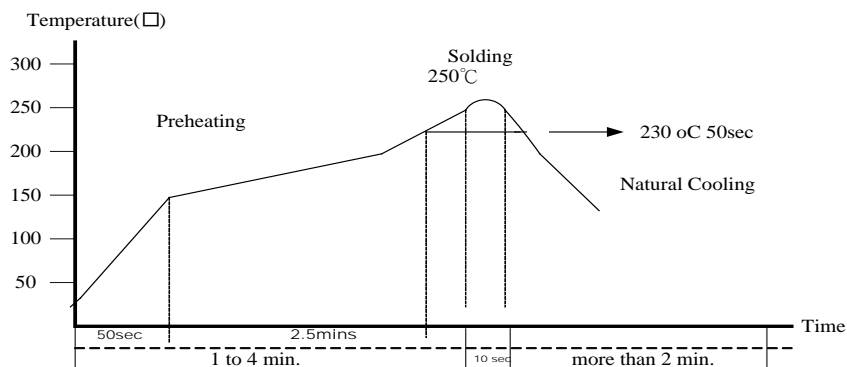


<b>CUSTOMER :</b>		<b>PART NO.</b>	
<b>SPECIFICATIONS</b>		<b>DATE</b>	
<b>PART NAME</b>	<b>FDRH TYPE</b>	<b>SPEC(TYPE)</b>	FDRH4D28-3R3N-NP
LOW TEMPERATURE STORAGE TEST	1. NO DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	TEMPERATURE:-25±2°C 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. 	



<b>CUSTOMER :</b>		<b>PART NO.</b>	
<b>SPECIFICATIONS</b>		<b>DATE</b>	
<b>PART NAME</b>	<b>FDRH TYPE</b>	<b>SPEC(TYPE)</b>	<b>FDRH4D28-3R3N-NP</b>
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



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