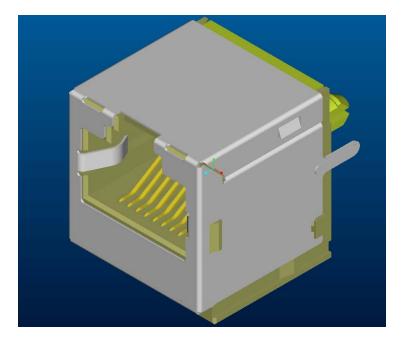


## ACRON PRODUCT SPECIFICATION



### ACRON P/N:GDI08-N3-08013

### 育鼎精密工業股份有限公司 ACRON PRECISION INDUSTRIAL CO., LTD 桃園縣八德市廣德里新興路 55 號

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□東莞睦永電子五金廠 (AMMI)				□東莞育鼎電子五金廠 (ACRON)			■東莞愷興電子科技電子有限公司 (NUCONN)		
REVISION:	EVISION: ECR/ECN INFORMATION:			PRODUCT NO		GDI08-N3-08013			SHEET No
Α	<u>EC No:</u> DATE:	NEW SPE 2013/02/	-	PRODUCT Vertical RJ45			10/100 BASE-T 1 of 7		<b>1</b> of <b>7</b>
DOCUN		BER:	CRE	REATED / REVISED BY: CHECK		CHECKE	D BY:	APPROV	ED BY:
PS-GD-0014				BRIAN.TAN KENNY.C		CHEN	KIN	11	



## ACRON PRODUCT SPECIFICATION

#### 1.0 SCOPE

This Product Specification covers the performance requirements for Vertical RJ45 with transformer connector series.

#### 2.0 PRODUCT DESCRIPTION

- 2.1 PRODUCT NAME AND SERIES NUMBER(S) Vertical RJ45 with transformer :GDI08-N3-08013
- 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS See appropriate sales drawings for details on dimensions, materials, plating and markings.

#### 2.3 SAFETY AGENCY APPROVALS

See appropriate sales drawings

#### 2.4 PRODUCT WEIGHT

The product weight is 5.408g

#### 2.5 PRODUCING PLANT FACTORY AND ADDRESS

Producing plant factory: Nuconn Industry CORP Coil plant factory: DongGuan Nuconn Industry CORP.or MinXin Electronic CORP or Vetak Electronic CORP. DongGuan Nuconn Industry CORP. Address: Nr.32,RongFu Rd.,3<sup>rd</sup> Industrial District,ShangSha Village,,ChangeAn Town,DonGuan City, GuangDong, MinXin Electronic CORP.Address: Qianwei City industrial park, SiChuan Vetak Electronic CORP. Address

XinZhai Village, Sansui city, GuiZhou,

#### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Please refer to the Sales Drawings, and other sections of this Specification for specific references to applicable documents and specifications. In cases where the Product Specification differs from the Sales Drawings, the Sales Drawing will take precedence

#### EIA-364 TEST METHODS FOR ELECTRICAL CONNECTORS

#### 4.0 RATINGS

#### **4.1 TEMPERATURE**

Operating Temperature Range: 0°C to + 70°C

Storage Temperature Range: - 40°C to + 85°C

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DOCUN	IENT NUME	BER:	CRE	ATED / REVISED BY: <u>CHECKED BY:</u> <u>APPI</u>		APPROV	ED BY:		
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#### 5.0 PERFORMANCE

Item	Test Items	Requirement	Procedures
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Visual, dimensional and functional per applicable quality inspection plan.

	Electrical Requirements								
2	LOW Level Contact Resistance	30 mΩ max initial ΔR = 30 mΩ max final	Mate subject connector with compatible connector. EIA-364-23B						
3	Insulation Resistance	1000 MΩ min initial 50 MΩ min final	Apply 100±10% Volts DC between adjacent contacts of mated connectors for one minute. EIA-364-21						
4	Dielectric Withstanding Voltage	No discharge, flashover or breakdown. Current leakage: 1 mA max	For mated specimens, 2250VDC between connected RJ interface contacts and all PCB tails connected together with shield. 1 milliamp ere cutoff current, 500 Volts per second maximum ramp. EIA-364-20						

	Mechanical Requirements								
5	Mating and Un- mating Forces	Insertion Force:22N max Unlatched Withdrawal Force: 22N max	Measure force necessary to mate and un-mate connectors using the free						
	mating rorces	Latched Withdrawal Force: 89N min	floating fixtures at rate of 25mm/min. EIA-364-05B						
6	Solder ability	Wetting must occur over at least 95% of the solder immersion surface	Solder:SN/3.0Ag/0.5Cu,Flux:ROSIN 25%,IPA75%.High Temp Storage:150°C 1 hour, PCT: 105°C 100% 1.22*105Pa 4 hours. Solder 240°C ±2°C; Immersion depth 2mm; Immersion time 3S						
7	Terminal Strength	Appearance meet requirement	Gravitation 500g , Winding 90 angle 2-3sec						
8	KOJIRI Strength	Appearance meet requirement	Left: 100N, push 15sec Right: 100N, push 15sec Up: 100N, push 15sec Down : 100N, push 15se						

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DOCUMENT NUMBER:

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# ACRON PRODUCT SPECIFICATION

							(1)Temp Cycle Te	et	
	9	Solder Joint Strength Test	Solder Joint Strength Test $(1)$ The variation must be 50 $\% \leq$ of the initial value $(2)$ After test measured items must be 75 $\% \leq$ of solder (Pb/Sn) item				<ul> <li>Min Temp: -40°C.</li> <li>TEMP:+125°C TIM</li> <li>CYCLES:200</li> <li>(2) Measurement II</li> <li>Component with II</li> <li>(EIAJED-4702); C</li> <li>LEAD: Bend Test</li> <li>(3) Measurement C</li> <li>200</li> <li>(4) Measurement S</li> <li>Component with II</li> </ul>	MAX /IE : Each 30 m LEAD: Tension Component with : (EIAJED-4702 cycle: INITIAL,( SMPL: LEAD: 5LEADS out LEAD:	Test out ) 100)
1	10	Physical Shock	No electrical discontinuity greater than 1µsecond. Shall meet visual requirements, and show no physical damages.			Subject mated connectors to 50 G's (peak value) half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction shall be applied along the three mutually perpendicular axes of the test specimen (18 shocks). The electrical load condition shall be 100mA maximum for all contacts. EIA-364-27B			
1	11	Durability	750 cycles with no function damage for RJ-45. Low Level Contact Resistance: $\Delta R = 30 m\Omega$ max final			The sample should be mounted in the tester and fully mated and unmated 300 times per hour at the rate of 25mm/min. EIA-364-09C			
	12	Random Vibration	No electrical discontinuity greater than 1µsecond. Shall meet visual requirements, and show no physical damages.			The electrical load 100mA maximum Subject to a simple having amplitude of maximum total exo which being varied the approximate lin The entire frequen 55 Hz and return to traversed in approx This motion shall b in each of three modirections. EIA-364-28D	for all contacts. the harmonic mot of 0.76mm (1.52 cursion) in freque uniformly betwo mits of 10 and 5 cy range, from to 10 Hz, shall b ximately 1 minu- be applied for 2	ion 2mm Jency reen 5 Hz. 10 to e te. hours	
REVI	SION			PRODUCT NO		G	DI08-N3-0801	3	SHEET No
ļ	4	EC No:         NEW SP           DATE:         2013/02	2/27				RJ45 10/100	BASE-T	<b>4</b> of <b>7</b>

CREATED / REVISED BY:

**BRIAN.TAN** 

CHECKED BY:

**KENNY.CHEN** 

APPROVED BY:

KIMI



			E	Invi	ronment	Rec	quiren	nents		
13	Therm (Simu Opera	late N	on-	(cha	30mΩ max nge from initi earance: no d	,	9	Subject mated connectors to 100 cycles between -40°C and 85°C, 30 minutes duration at both temperature extremes. EIA-364-32C		
14	Humic Tempo Cyclin	eratur	e	(cha	$30m\Omega$ max nge from initia earance: no d		9	Mated connectors chamber (Humidi Temperature 20-0 EIA-364-31B, Me	ty 80-98%, 65℃) for 500 H	rs.
15	Tempo (Heat			$\triangle R$ : 30m $\Omega$ max (change from initial) & Appearance: no damage			Subject mated co temperature life a hours. EIA-364-17B, Me	at 85 $^\circ\!\!\mathbb{C}$ for 500		
16	Tempo (Cold			(cha	30mΩ max nge from initi earance: no o		е	Subject mated co temperature life a EIA-364-17B, Me	at-40°∁ for 500 h	nours
17	Salt Spray				$\triangle R$ : 30m $\Omega$ max (change from initial) & Appearance: no damage			8hours moving 16hours resting total 24hours 3cycles Atmosphere: salt spray from a 5% solution. Temperature: 35 +1/-2°C EIA 364-26		
18	Damp State	Heat,	Steady	JIS C 0022 JEC Pub.68 2-3 Ca MIL-STD-202 103B			Test Temp ∶40±2℃ Relative Humidity:90~95%RH Test time:500Hrs			
19	Chang Tempo		e	JIS C 0025 JEC Pub.68 2-14 NA MIL-STD-202 102A (Unless otherwise specified, either method 1or method 2. is to be closen)			$\begin{array}{c c} & & & & & \\ & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$	1         -40°         30min           2         5~35 °C         Less than 5m           3         85°         30min           Less than 5m		
20	Ammo	onia		Арре	earance: no d	amage	e	Hydrogen Ion Ex (PH)=10 Test Temperatur Test Time:72±4h	e:15~35℃	
	· 				PRODUCT					ı
VISIO					NO		GI	DI08-N3-0801	3	<u>SHEE</u>
Α		<u>C No:</u> ATE:	NEW SPI 2013/02/		PRODUCT NAME	Ve	ertical I	RJ45 10/100	BASE-T	<b>5</b> of
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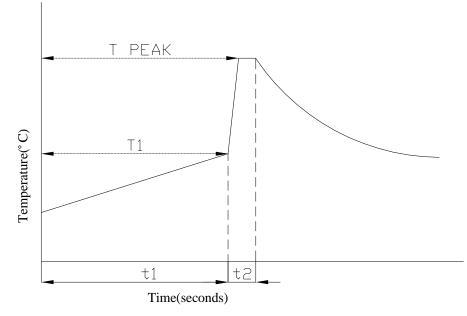


21	Soldering Heat	<ol> <li>Electrical and mechanical performance must be satisfactory in specifications</li> <li>There must no conspicuous changes in appearance(For example warping, swelling, cracking, indication)</li> </ol>	MATERIALS Solder : Sn/99Ag/0.3/Cu0.7(Weight&) If no doubts araise in judgment, it is ok to use another SOLDER TEST CONDITION 1 : TEST A: Flow Soldering (Partly Heating) 260±3℃ 10S ≦ 2 : TEST B: Hand Soldering 400℃(Soldering iron tiop) 3S ≦
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#### 6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. See packaging appropriate drawings

#### 7.0 RECOMMENDED WAVE SOLDERING PROFILE



PARAMETER	REFERENCE	LEAD FREE SPECIFICATION
PREHEAT TEMPERATURE GRADIENT		+1~4℃/sec
PREHEAT TIME	t1	70 sec
PREHEAT TEMPERATURE	T1	<b>100</b> ~120℃
SOLDER POT TEMPERATURE	T PEAK	<b>260</b> ℃
DWELL TIME	t2	5 SEC
PEAK BOARD TOP TEMPERATURE		<b>190</b> ℃
COOLING TEMPERATURE GRADIENT		-6℃/SEC MAX.

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