

Acron P/N:GDS03-N3-080A3

育鼎精密工業股份有限公司 ACRON PRECISION INDUSTRIAL CO., LTD

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□東莞	E睦永電子 (AMMI)	五金廠			育鼎電子 ACRON	五金廠)	東莞愷	興電子科技電子 (NUCONN)	一有限公司
REVISION:	EVISION: ECR/ECN INFORMATION:		PRODUCT NO	(GDS03-N3-080A3		SHEET No		
С	EC No: DATE:	RD-1300 2010/07/	_	PRODUCT Vertical RJ45 With NAME Dip		ithout tra	ansformer	1 of 7	
DOCUMENT NUMBER: CR		CRE	EATED / REVISED BY: CHECKED BY: AF		APPROVI	ED BY:			
PS-GS-0002			LIANG.WU JEFF.YANG		ANG	KIMI.H	ISU		



1.0 SCOPE

This Product Specification covers the performance requirements for Vertical RJ45 Without transformer Dip type series

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

Vertical RJ45 Without transformer Dip type, Acron part No:GDS03-N3-080A3,

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 5.25g

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.,3rd Industrial District,ShangSha Village,,ChangeAn Town,DonGuan City, Guang Dong,

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

TEMPERATURE

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

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

Voltage Rating: 125 VAC

Current Rating: 1.5 A

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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 $\Delta R = 30$ 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: 1m A max	For mated specimens, 1000 VAC between connected RJ interface contacts and all PCB tails connected together with shield. 1 milliamp ere cutoff current, 1.5 A Volts per second maximum ramp. EIA-364-20D							

	Mechanical Requirements								
5	Mating and Un- mating Forces	Insertion Force:22N max Unlatched Withdrawal Force: 22N max Latched Withdrawal Force: 89N min	Measure force necessary to mate and un-mate connectors using the free 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						

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PRODUCT SPECIFICATION

	8	Solder Joint Strength Test	≦ of (2) A	The variation m f the initial valu fter test measu be 75% ≦ of s	e ıred iten	าร	(1)Temp Cycle Test Min Temp: -40°C. TEMP:+125°C TIM CYCLES:200 (2) Measurement If Component with If (EIAJED-4702); CI LEAD: Bend Test (3) Measurement of 200 (4) Measurement SI Component with If Component with If Component with If SPOINTS≦ To ca	MAX ME: Each 30 m tem: LEAD: Tension Component with (EIAJED-4702 cycle: INITIAL,(SMPL: LEAD: 5LEADS ut LEAD:	Test nout !) 100)
	9 Physical Shock			lectrical discon 1µsecond. meet visual re show no physic	quireme	ents,	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.		es of
	10	10 Durability		750 cycles with no function damage for RJ-45. Low Level Contact Resistance: $\Delta R = 30 \text{m}\Omega$ max final		The sample should tester and fully ma 300 times per hour 25mm/min. EIA-364-09C	ted and unmate		
	11 Random Vibration		than requi	No electrical discontinuity greater than 1µsecond. Shall meet visual requirements, and show no physical damages.		The electrical load 100mA maximum of Subject to a simple having amplitude of maximum total exception which being varied the approximate ling. The entire frequent 55 Hz and return to traversed in approximate traversed in approximate in each of three middirections. EIA-364-28D	for all contacts. harmonic mot of 0.76mm (1.52 cursion) in frequentiates of 10 and 5 cy range, from the 10 Hz, shall be applied for 2	ion 2mm lency leen 55 Hz. 10 to lee lite. hours	
	12 KOJIRI Strength		Арре	Appearance meet requirement		Left: 100N, push Right: 100N, push Up: 100N, push Down: 100N, push	n 15sec I5sec		
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13	PCB Retention	1 LBS MIN	Pre Solder	
14	PCB Retention	10 LBS MIN	POST Solder	

	Environment Requirements								
15	Thermal Shock (Simulate Non- Operating State)	\triangle R: 30m Ω max (change from initial) & Appearance: no damage	Subject mated connectors to 100 cycles between -40°C and 85°C, 30 minutes duration at both temperature extremes. EIA-364-32C						
16	Humidity- Temperature Cycling	\triangle R: 30m Ω max (change from initial) & Appearance: no damage	Mated connectors placed in humidity chamber (Humidity 80-98%, Temperature 20-65°C) for 500 Hrs. EIA-364-31B, Method IV, Except 7a						
17	Temperature Life (Heat Aging)	\triangle R: 30m Ω max (change from initial) & Appearance: no damage	Subject mated connectors to temperature life at 85°C for 500 hours. EIA-364-17B, Method A						
18	Temperature Life (Cold Aging)	\triangle R: 30m Ω max (change from initial) & Appearance: no damage	Subject mated connectors to temperature life at-40°C for 500 hours EIA-364-17B, Method A						
19	Salt Spray	\triangle R: 30 m Ω 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						
20	Change of Temperature	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)	Metod1						
21	Damp Heat, Steady State	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						
22	Ammonia	Appearance: no damage	Hydrogen Ion Exponent Index (PH)=10 Test Temperature:15~35℃ Test Time:72±4hrs						

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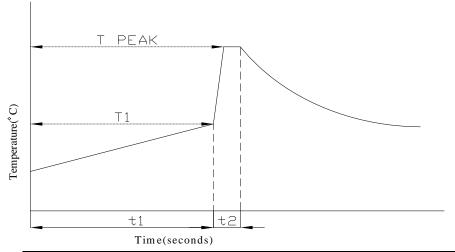


23	Soldering Heat	1: Electrical and mechanical performance must be satisfactory in specifications 2:There must no conspicuous changes in appearance(For example warping, swelling, cracking, indication)	MATERIALS Solder: Sn/99Ag/0.3/Cu0.7(Weight&) If no doubts araise in judgment, it is ok to use another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

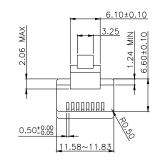


PARAMETER	REFERENCE	LEAD FREE SPECIFICATION
PREHEAT TEMPERATURE GRADIENT		+1~4°C/sec
PREHEAT TIME	t1	70 sec
PREHEAT TEMPERATURE	T1	100 ~120℃
SOLDER POT TEMPERATURE	T PEAK	260℃
DWELL TIME	t2	5 SEC
PEAK BOARD TOP TEMPERATURE		190℃
COOLING TEMPERATURE GRADIENT		-6℃/SEC MAX.

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8.0 RECOMMENDED RJ PLUG SPECIFICATION



* There must be no damage to housing or locking latch.There must be no nicks or cuts in 8.36 MAX cable.

0.89 MIN 12.32 MIN 2.76±0.10 5.89 2.34 MAX Locking Latch 1.32 MAX Terminal All contacts recessed below top of housing and must be at the same height approximately 6.15 CRIMP HEIGHT \angle Cable -Housing -Conductor Wire 5.59 MIN FOLLOW SPECIFICATION: FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(i) AND IEC 603-7 FIGURE 23 & 24

FOLLOW SPECIFICATION: FCC, PART 68, SUBPART F FIGURE 68.500 (C)(2)(ii)

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