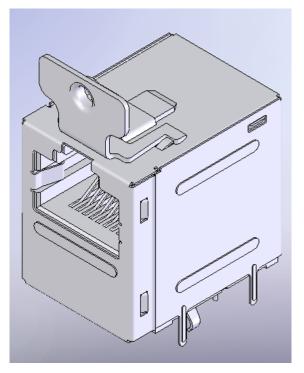


ACRON PRODUCT SPECIFICATION



ACRON P/N:GDP21-N3-0609300

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

No.55, SinSing Road., Bade City, Taoyuan County 334, Taiwan(R.O.C) TEL: 886-3-3629889 FAX: 886-3-3664917

□東莞睦永電子五金廠				□東莞育鼎電子五金廠			■東莞愷興電子科技電子有限公司			
(AMMI)			()	ACRON)		(NUCONN)			
REVISION:	ECR/ECN INFORMATION:			PRODUCT NO		GDP21-N3-0609300			SHEET No	
•	EC No:	NEW SP	EC.	PRODUCT	SINGLE PORT RJ45,10/100				1 .: 0	
Α	DATE:	2013/02/	27	NAME		BASE-T(WI	THOUT	USB)	1 of 8	
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ACRON PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the performance requirements for Single port RJ45,10/100 Base-T(With Out USB)connector series.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

Single port RJ45,10/100 Base-T(With Out USB)connector series. ACRON part No:GDP21-N3-0609300,

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 9.65 g

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, 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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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	Requirer	nents		
5	Mating and Un- mating Forces	Insertion Force:22 Unlatched Withdra 22N max Latched Withdraw 89N min	awal Force:	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 95% of the solder in 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 re	equirement	Gravitation 500g , Winding 90 angle 2-3sec		
8	KOJIRI Strength	Appearance meet re	equirement	Left: 100N, push 15sec Right: 100N, push 15sec Up: 100N, push 15sec		
VISION			GDP21-N3-0609300			

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			Down : 100N, push 15se		
9	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	 (1)Temp Cycle Test Min Temp: -40°C. MAX TEMP:+125°C TIME : Each 30 min. CYCLES:200 (2) Measurement Item: Component with LEAD: Tension Test (EIAJED-4702); Component without LEAD: Bend Test (EIAJED-4702) (3) Measurement cycle: INITIAL,(100) 200 (4) Measurement SMPL: Component with LEAD: 5LEADS ≤ Component without LEAD: 5POINTS ≤ To calculate Average 		
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		
11	Durability	200 cycles with no function damage for RJ-45. Low Level Contact Resistance: $\Delta R = 30m\Omega$ 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 condition shall be 100mA maximum for all contacts. Subject to a simple harmonic motion having amplitude of 0.76mm (1.52mm maximum total excursion) in frequency which being varied uniformly between the approximate limits of 10 and 55 Hz. The entire frequency range, from 10 to 55 Hz and return to 10 Hz, shall be traversed in approximately 1 minute. This motion shall be applied for 2 hours in each of three mutually perpendicular directions. EIA-364-28D		

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				Envi	ronment	Rec	luirer	nents		
13	(Sir	ermal Sh mulate N erating S	on-	(cha	$\triangle R$: 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		
14	Ter	midity- nperatur cling	e	$\triangle R$: 30m Ω max (change from initial) & Appearance: no damage				Mated connectors chamber (Humidi Temperature 20-6 EIA-364-31B, Me	ty 80-98%, 65℃) for 500 H	rs.
15	15 Temperature Life (Heat Aging)			$\triangle R$: 30m Ω 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		nperatur old Aging		(cha	: $30m\Omega$ max inge from initi bearance: no (е	Subject mated co temperature life a EIA-364-17B, Me	t-40°℃ for 500 h	nours
17	17 Salt Spray			$\triangle R$: 30m 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			
18	Dai Sta	mp Heat, te	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		ange of nperatur	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} Metod1 & \begin{bmatrix} 1_3 \\ t_2 \\ t_1 \\ t_2 \\ t_3 \\ t_2 \\ t_3 \\ t_4 $		
20	20 Ammonia			Appearance: no damage			Hydrogen Ion Exponent Index (PH)=10 Test Temperature:15~35°C Test Time:72±4hrs			
	1			1				1		
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Α		<u>EC No:</u> DATE:	NEW SP 2013/02		PRODUCT NAME			PORT RJ45 -T(WITHOUT		5 c
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21	Soldering Heat	 Electrical and mechanical performance must be satisfactory in specifications 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) $260\pm3^{\circ}$ C 10S \leq 2 : TEST B: Hand Soldering 400°C(Soldering iron tiop) 3S \leq
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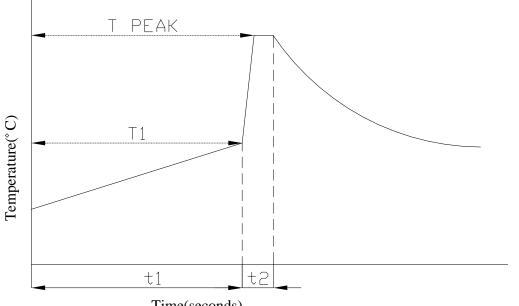
6.0 PACKAGING

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

7.0 RECOMMENDED WAVE SOLDERING PROFILE

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Time(seconds)

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

8.0 RECOMMENDED RJ PLUG SPECIFICATION

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