SPEC. NO.: PS-RJ	45 + Transformer	REVISION:	1
PRODUCT NAME:	1.02mm Pitch RJ45	Transformer Jack	Conn.
PRODUCT NAME:	1.02mm Pitch RJ45 T/H R/A 10G tap do		Conn.
PRODUCT NAME:			Conn.
	T/H R/A 10G tap do		Conn.
	T/H R/A 10G tap do		
PRODUCT NO:	T/H R/A 10G tap do 30802 SERIES	own 1X1 type	

Aces P/N: SPEC-RJ 45 + Transformer TITLE: 1.02mm Pitch RJ45 Transformer Jack Conn.T/H R/A 10G Tap Down 1X1 Type RELEASE DATE: 2018/07/18 REVISION: 1 ECN No: ECN-18xxxxx PAGE: **2** OF **7** REVISION HISTORY......3 2 3 APPLICABLE DOCUMENTS4 REQUIREMENTS4 5 PERFORMANCE AND TEST DESCRIPTION5 PRODUCT QUALIFICATION AND TEST SEQUENCE......7

Revision History Rev. ECN # Revision Description Prepared Date	REVISION: 1 ECN No: ECN-18xxxxx PAGE: 3 OF 7 TY Revision Description Prepared Date	Revision History Rev. ECN # Revision Description Prepared Date	Revision History Rev. ECN# Revision Description Prepared Date	11 F. 1 M	2mm Pitch P M5.T			n 1X1 Type	
Revision History Rev. ECN# Revision Description Prepared Date	# Revision Description Prepared Date	Revision History Rev. ECN# Revision Description Prepared Date	Revision History Rev. ECN# Revision Description Prepared Date						AGE: 3 OF 7
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Aces P/N: SPEC-RJ 45 + Transformer

TITLE: 1.02mm Pitch RJ45 Transformer Jack Conn.T/H R/A 10G Tap Down 1X1 Type

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2 SCOPE

This product specification covers performance, tests and quality requirements for RJ45 with LED. When tests are performed on subject product line, procedures specified in Figure 1 shall be used. All inspections shall be performed using the applicable product drawing.

3 APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of the specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

3.1. APPLICABLE DOCUMENTS AND SPECIFICATIONS

EIA-364: ELECTRONICS INDUSTRIES ASSOCIATION

4 REQUIREMENTS

4.1. Standard atmospheric condition:

Unless otherwise specified, the standard range of atmospheric condition for marking, measurement and tests is as follows:

Ambient temperature: 15°C to 35°C Relative humidity: 63% to 67%

Air pressure: 86 kpa to 106 kpa

4.2. Temperature:

Operating temperature: 0°C to 70°C

Storage temperature: -40°C to 85°C

4.3. Ratings

4.3.1 Voltage: 3.3 volts DC for signal pairs, 2.2 volts DC for LED signals.

4.3.2 Current:

- 0.1 ampere maximum per contact for signal pins.
- 0.02 ampere maximum for LEDs in forward direction.
- 1.5 ampere maximum per contact, host board connector.

4.4. Dimension

See applicable product drawing

4.5. Material, plating and markings See applicable product drawing

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5 Performance and Test Description

Product is designed to meet the electrical, mechanical and environmental performance requirements specified in Future 1. Unless otherwise specified, all tests shall be performed at ambient environmental conditions per EIA-364

5.1. Appearance requirements

Item	Requirement	Standard
	•	
Examination of Product	Product shall meet requirements of applicable product drawing and specification.	Visual, dimensional and functional per applicable quality inspection plan. (EIA-364-18B)
	ELECT	RICAL
Dielectric Withstanding Voltage / TNV/ IR / LCR	By Engineering drawing	By Engineering drawing E-30818-XXXXXXXXXXXXXXX
LED functional test	With LEDs are present, all LED colours illuminate and meet visual requirements.	Activate LEDs at application current and voltage. 20mA current and 2.2V TYP
temperature rise.	30°ℂ Max. Change allowed	a minimum current of 1.0 A shall be applied to all tile other contacts. when measured at an ambient temperature of 25 °C. to simulate operation conditions. (EIA-364-70 Method 1)
	MECHA	NICAL
Solderability	Solder able area shall have minimum of 95% solder coverage See Note (a).	And then into solder bath, Temperature at 245 ±5℃, for 5 sec. (EIA-364-52)
Mating / Unmating Forces.	RJ45 Insertion Force: 22Nmax Unmating Force: 22N ma	Operation Speed: 25 ± 3 mm/minute. Measure the force required to mate/unmate connector. See Note (a). (EIA-364-13)
Physical Shock	1μs max See Note (a).	Subject mated plug and connector soldered to P.C. Board to 50 G's (peak value) half-sine shock pulses of 11 milliseconds duration. 3 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-364-27, Mothod A)

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Durability	RJ45 750 cycles See Note (a).	The sample should be mounted in the tester and fully mated and unmated the number of cycles specified at the rate of 500±50 cycles per hour. (EIA-364-09 C)					
Thermal shock	See Note (a)	Mate module and subject to follow condition for 5 cycles: -55 +0/-3 °C, 30 minutes +85 +3/-0 °C, 30 minutes (EIA-364-32C)					
Vibration, Random	1μs max See Note (a).	Subject connector soldered to P.C. Board and mated with plug together. Each terminal shall be connected in series. The electrical load condition shall be 100mA maximum for all contacts. Subject the specimens to the following condition: Amplitude: 1.52mm Frequency: 10 – 55 – 10Hz This motion shall be applied for 2 hours in each of three mutually perpendicular directions (Total of 6 hours). (EIA-364-28 D)					
Humidity-Temperature Cycling	The insulation resistance must coincide previously specification See Note (a).	Mated Connector 40°C, 90~95% RH, 96 hours. (EIA-364-31,Condition A, Method II)					
Salt Spray	See Note (a).	Subject mated/unmated connectors to 5% salt-solution concentration, 35°C for XX hours 30802 : 48 hours (EIA-364-26 B)					
Temperature Life	See Note (a)	Subject mated connectors to temperature life at 70 °C for 96 hours. (EIA-364-17 Method A)					
Hand Soldering Temperature Resistance	Appearance: No damage	T≧350°C, 3sec at least.					

Figure-1

Note:

(a). Shall meet visual requirements show no physical damage and shall meet requirements of additional tests as specified in Test Sequence in Figure-2.

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PRODUCT QUALIFICATION AND TEST SEQUENCE

Test or Examination					Test	Group				
rest of Examination	1	2	3	4	5	6	7	8	9	10
Examination of Product	1	1	1	1	1,4	4	1	1,4	1,4	1,3
Dielectric Withstanding Voltage/ TNV/ IR / LCR	2,4	2	2,4	2,6	2,5	1,3	2,4	2,5	2,5	
Temperature rise	3									
LED functional test		3								
Solderability		4								
Mating /Unmating force				3,5						
Physical shock			3							
Durability				4						
Thermal shock					3					
Vibration,Random						2				
Humidity-Temperature Cycling							3			
Salt Spray								3		
Temperature Life									3	
s Hand Soldering Temperature Resistance										2
Sample Size	2	2	2	2	2	2	2	2	2	2

Figure-2

Note:

- (a) If the product without LED, please ignore and go to next step.
- (b) Without any caption use 750 cycles; other choice are 1000 cycles and 1500 cycles (need caption).

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(c) Per Sequence Before Test and After Test need test LCR.