PRODUCT SPECIFICATION PS-R914 Rev. A

ORIGINAL

Title: RJ45 Express Connectors

Part Number: RJMG1V2XXT101XR

Description: TOP ENTRY PCB JACK

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Revisions Control

Rev.	ECN Number	Originator	Approval	Issue Date
A	NE-13104	Jophy Li	Roger Tsai	7-9-2013

Product Specification Origination

Originator:	Date:	Checked by:	Date:	Approved by:	Date:
Jophy Li	2013.7.9	Roger Tsai	2013.7.9	Roger Tsai	2013.7.9

1.0 SCOPE

This document contains specific electrical and mechanical requirements for the RJ45 express TOP ENTRY PCB JACK connector to insure functionality and reliability.

0.5 APPLICABLE DOCUMENTS

The following document, of the latest issue in effect at the time of performance of the qualification tests, shall form a part of this specification to the extent specified herewith.

EIA-364	Test methods for electrical connectors
MIL-STD-202F	Test methods for electrical component parts

Underwriters' Laboratories, Inc.

UL-STD-94	Tests for flammability of plastic materials for parts in devices and

3.0 REQUIREMENTS

3.1 Materials

3.1.1 Housing、IN'S

- High temperature thermoplastic, UL94V-0 rated
- Color- Black

3.1.2 Contacts

- Phosphor bronze
- Contact area- Gold 30μ"minimum or
- Solder area- Tin plating
- Under plate - Nickel under plating overall

3.1.3 Shield

- BRASS
- Nickel Plating

3.1.4 Transformer

- PCB
- CORE
- GLUE SHELL
- PIN
- BLACK GLUE
- SOLDER WIRE
- ENAMELED WIRE
- RESISTOR
- CAPACITOR

3.2 Ratings

3.2.1 Voltage: 150 Volts AC(RMS)/DC.

3.2.2 Current: **1.5**A maximum per contact

3.2.3 Operating Temperature: **0**°C ~ **70**°C

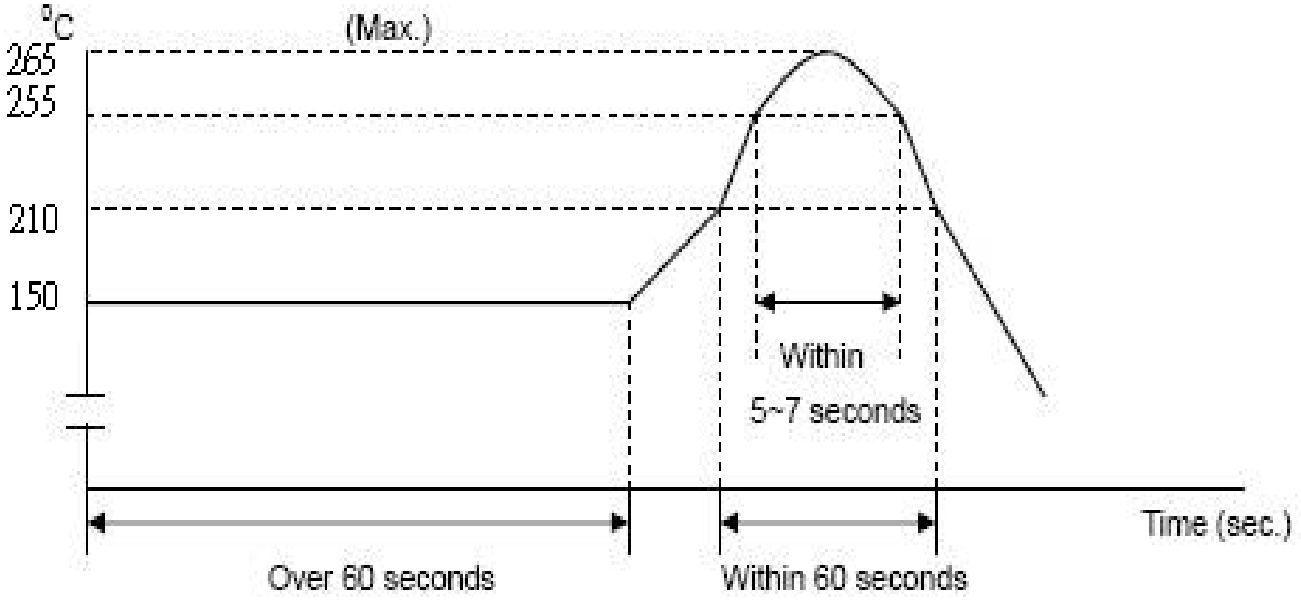
3.2.4 Shipping and Storage Temperature: **-40**°C ~ **85**°C

3.3 Test Requirements and Procedures Summary

TEST ITEM		REQUIREMENT	PROCEDURE
1	**Examination of Product**	Meets requirements of product drawing. No physical damage.	Per **EIA-364-18** Visual, dimensional and functional inspection
ELECTRICAL REQUIREMENT			
2	**Dielectric withstanding Voltage**	No Breakdown	Per **EIA-364-20** Subject mated connector with a. voltage of **1500**VAC for **1** minute between input to output.
3	**LCR Test**	No Breakdown	
MECHANICAL REQUIREMENT			
TEST ITEM		**REQUIREMENT**	**PROCEDURE**
4	**Mating force**	**20** N maximum per contact pair	Per **EIA-364-13** Insertion speed at 25±3mm per minute
5	**Unmating force**	**80** N minimum per contact pair	Per **EIA-364-13** Withdraw speed at 25±3mm per minute
6	**Durability**	No defects & Transformer test OK	Per **EIA-364-09** Perform **750** cycle unplug/ plug cycles

ENVIRONMENTAL REQUIREMENTS			
7	**Salt Spray**	No detrimental corrosion allowed in contact area and base metal exposed & LCR test OK	Per **EIA-363-26, test condition B** Subject mated connectors to **35** ± **2**ºC and **5** ± **1**% salt condition for **24** hours. After test, rinse the sample with water and recondition the room temperature for **1** hour.
8	**Solderability**	**95**% of immersed area must show no voids and pin holes	Per **EIA-364-52** Soldering time: 4-5 second (Use flux) Solder Temperature: 245±5^{0}C
9	**Resistance to reflow soldering Heat**	No damage&LCR test OK	IR temperature 260±5^{0}C max

3.4 Recommended IR Reflow Profile(Lead-free)



3.5 PRODUCT QUALIFICATION AND REQUALIFICATION TEST SEQUENCE

Test or Examination	Test Group						
	A	B	C	D	E	F	G
	Test Sequence (a)						
Examination of Product	1,5	1	1	1,5	1,5	1,5	1,5
Dielectric withstanding Voltage	3						
LCR Test	2,4			2,4	2,4	2,4	2,4
Mating force		2					
Unmating force			2				
Durability				3			
Salt Spray					3		
Solderability						3	
Resistance to reflow soldering Heat							3
Sample size	2	2	2	2	2	2	2

NOTE：（a）Numbers indicate sequence in which tests are performed.
（b）Discontinuities shall not take place in this test group, during tests.

List of Appendix

☐ Product Drawing RJ45 series, TOP ENTRY PCB JACK.