

PRODUCT SPECIFICATION RJ45 Connectors Series	SPEC.No.:RJ-002	
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1. Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **RJ45 Connectors Series** .

2. Shape,Construction and Dimensions:

See attached drawing

3. Materials

See attached drawing

4. Accommodated cable and P.C.Board

4.1 Thickness:1.6mm(.063)

4.2 P.C.Board Layout:See attached drawings

5. Rating:

A	Voltage	125 V (RMS)
B	Current	1.5 A
C	Temperature	-40°C ~+70°C

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6. Product Performance and Requirements:

Electrical Performance		
Test Description	Test Procedures & Condition	Requirements
Temperature Rise vs Current Rating	EIA 364-70 Measure temperature rise vs current at 0.5A minimum when measured at an ambient temperature of 23±3°C.	The ΔT shall not exceed +30°C at any point in the connector under test.
Contact Resistance	EIA 364-23 Subject mated contacts assembled in housing to closed circuit current of 100 mA maximum at open circuit at 20 mV maximum.	30 mΩ maximum
Insulation Resistance	EIA 364-21 Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assemblies. Test Voltage: 300V DC.	500 MΩ minimum
Dielectric Withstanding Voltage	EIA 364-20 Unmated connectors, apply 300 Volts RMS between adjacent terminal and ground. Mated connector, apply 300 Volts RMS between adjacent terminal and ground.	1. No flashover, No spark over, No excess leakage, No breakdown. 2. Current leakage: < 0.5mA

Mechanical Performance		
Test Description	Test Procedures & Condition	Requirements
Flammability	UL 94V-0 This procedure is to ensure thermoplastic resin compliance to UL flammability standards.	The manufacturer will require its thermoplastic resin vendor to supply a detailed C of C with each resin shipment. The C of C shall clearly show the resin's UL

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		listing number, lot number, date code, et cetera.
Mating and Unmating force	EIA 364-13 Subject connector to mate and unmate to measure the mechanical forces required to engage and disengage at a rate of 25.4mm per minute. Record by using autograph.	1. Insertion force: 2.27 kgf max 2. Withdrawal force : 7.7 kgf Minimum
Vibration (Random)	1.5mm 10-55-10HZ/minute each 2hours for X,Y and Z directions	Appearance :No damage Discontinuity Imicro second max

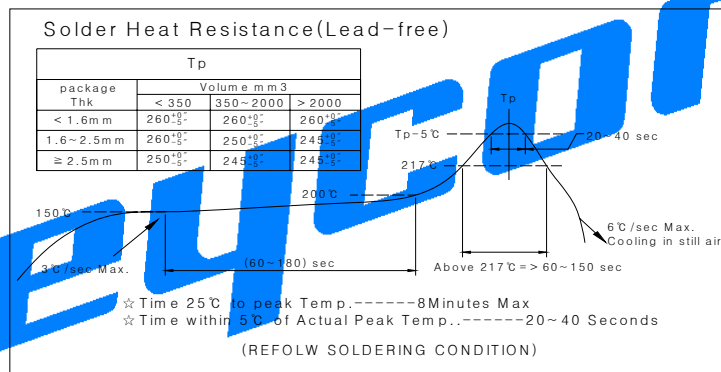
Environmental Performance		
Test Description	Test Procedures & Condition	Requirements
Solder ability	EIA 364-52 Subject unmated connectors should be tested according to the condition listed below: Steam Aging Temperature: 90 ~ 96°C Steam Aging Duration: 8 hours±5 min. Soldering Temperature: 230±5°C Soldering Time: 4 ~ 5 seconds Flux: Inactivated	Continuous solder coating with a minimum 90% coverage.
Resistance to Soldering Heat	EIA 364-56 Condition B Subject unmated connectors should be tested according to the condition listed below: Temperature: 265±5°C Immersion Duration: 10±1 seconds Immersion and emersion rate: 25.4mm±6.35mm per second	1. No evidence of damage. 2. The electrical performances should meet the spec. Specified. 3. The mechanical performances should meet the spec. Specified.
Salt Spray	EIA 364-26 Subject mated and unmated connectors should be tested according to the condition listed below: Temperature: 35 1.1 C Humidity: 95 ~ 98% (R.H.)	1. No evidence of damage. 2. The electrical performances should meet the

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	PH Value: 6.5 ~ 7.2 Duration: 48 hours	spec. Specified.
Temperature Life (Thermal Aging)	EIA 364-17 Mate connectors and expose to (+105 ± 2)°C for 250 hours. Upon completion of the exposure period, the test specimens must be conditioned at ambient room conditions for one to two hours after which the specified measurements must be performed.	Contact:Change from initial value: 30 mΩ maximum. Shell Part: Change from initial value: 50 mΩ maximum.

Soldering Condition:
Reflow soldering

Lead-Free-IPC / IPC-STD-020C



Wave Soldering

Lead-Free-JESD22-B106C-Lead-free

