

PRODUCT SPECIFICATION 2.54 DIN 41612 Eurocard Connectors Series	SPEC.No.: Din 41612-001	
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1. Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **2.54 DIN 41612 Eurocard 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:0.8(.031") ~1.6mm(.063")

4.2 P.C.Board Layout:See attached drawings

5. Rating:

A	Current	3 A
B	Temperature	-40°C ~+105°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: 1000V DC.	1000 MΩ minimum
Dielectric Withstanding Voltage	EIA 364-20 Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assemblies. Test Potential: 1000V AC at sea level Test Duration: 60 seconds	1. No flashover, No spark over, No excess leakage, No breakdown. 2. Current leakage: < 0.5mA

Mechanical Performance		
Test Description	Test Procedures & Condition	Requirements

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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 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.	10 Pin max.9N 20Pin max.18N 16Pin max.15N 30Pin max.27N 32Pin max.30N 44Pin max.40N 48Pin max.45N 64Pin max.60N 96Pin max.90N
Pin retention force	Push Pin form insulator base at speed 25±3mm Per minite	More than 1000 gram

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: 260±5°C Soldering Time: 4 ~ 5 seconds Flux: Inactivated	Continuous solder coating with a minimum 95% coverage.
Temperature Life	A 364-17 Test Condition 3 Method A The object of this test is to detail a standard test method to assess the ability of a connector to withstand elevated temperatures with or without electrical loading. Subject mated connectors should be tested according to the condition listed below : Temperature : 105 ± 2°C	1. No evidence of damage. 2. The electrical performances should meet the spec. specified.

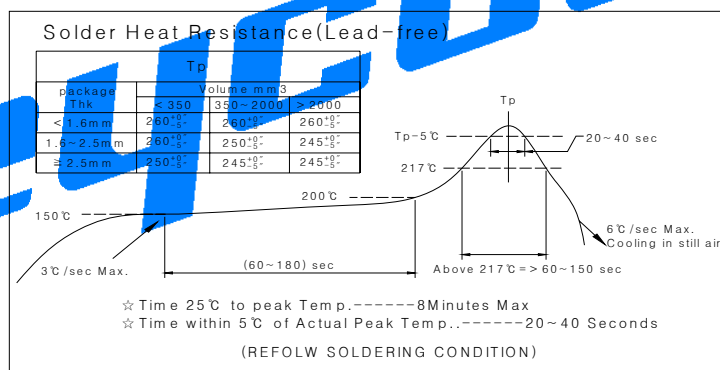
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	Duration : 96 hours	
Salt Spray	EIA 364-26 Subject mated and unmated connectors should be tested according to the condition listed below: Temperature: $35 \pm 3^{\circ}\text{C}$ Humidity: 95 ~ 98% (R.H.) PH Value: 6.5 ~ 7.2 Duration: 48 hours	1. No evidence of damage. 2. The electrical performances should meet the spec. Specified.

Soldering Condition:

Reflow soldering

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



Wave Soldering

Lead-Free-JESD22-B106C-Lead-free

