

PRODUCT SPECIFICATION 2.54 Pin Header Connectors Series	SPEC.No.:Pin Header-003	
	Rev: A	Page: 1 / 5

TABLE OF CONTENT

1. Scope.....	2
2. Shape,Construction and Dimensions.....	2
3. Material.....	2
4. Accommodated cable and P.C.Board.....	2
5. Rating	2
6. Product Performance and Requirement.....	3

Rev	Date	Description	Edited by	Approvals
A	20110601	Issue		Prepared: XIAO XI. G
				Checked: LILIU
				Approved: ZH.G MIN

No part of the information shown on this document may be used in any way without office stamp or written consent of LEYCONN.ELECTRONIC CO., LTD.

PRODUCT SPECIFICATION 2.54 Pin Header Connectors Series	SPEC.No.:Pin Header-003	
	Rev: A	Page: 2 / 5

1. Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **2.54 Pin Header 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

PRODUCT SPECIFICATION 2.54 Pin Header Connectors Series	SPEC.No.:Pin Header-003	
	Rev: A	Page: 3 / 5

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.	20 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: 600V DC.	1000MΩ 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: 600V 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

PRODUCT SPECIFICATION 2.54 Pin Header Connectors Series	SPEC.No.:Pin Header-003	
	Rev: A	Page: 4 / 5

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.
Pin retention force	Push Pin form insulator base at speed 25±3mm Per minute	More than 800gram

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	EIA 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 Duration : 96 hours	1. No evidence of damage. 2. The electrical performances should meet the spec. specified.

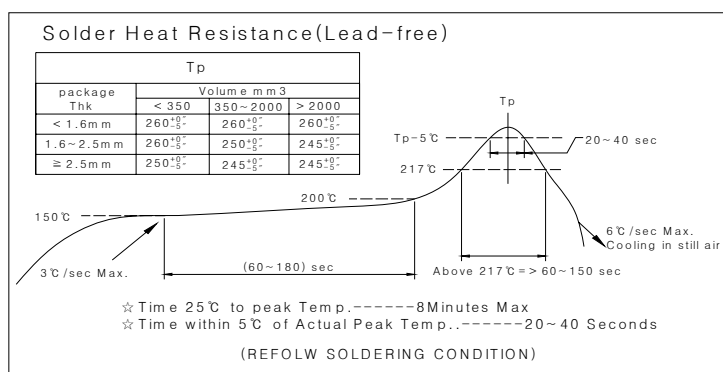
PRODUCT SPECIFICATION 2.54 Pin Header Connectors Series	SPEC.No.:Pin Header-003	
	Rev: A	Page: 5 / 5

Salt Spray	EIA 364-26	1. No evidence of damage. 2. The electrical performances should meet the spec. Specified.
	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	

Soldering Condition:

Reflow soldering

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



Wave Soldering

Lead-Free-JESD22-B106C-Lead-free

