

# Reliability Report

Isahaya Electronics Corporation  
Quality Assurance Department

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## 1. Reliability Test Results

Group	Test Items	Test Conditions	Test Quantity	Failure Quantity	Remarks
1	Solderability	Solder Temperature 230°C Immersion Time 5sec Using rosin-type flux	45	0	
2	Resistance to solder heat	Solder Temperature 260°C Immersion Time 10sec Immersing whole device	22	0	
3	Whisker	60°C, 90%RH, 4000hr	20	0	
		-40°C, 85°C, 30 min each, 1500 cycles			
		Room Temperature 8760hr			
4	Temperature Cycle	Ta=Tstg(min)~Tstg(max) 30min each cycle 100 cycles	45	0	
5	Humidity Resistance	Ta=85°C, 85%RH 1000hr	45	0	
6	High Temperature Storage	Ta=Tstg(max) 1000hr	45	0	
7	Operation life test	Ta=25°C IT=IT(max) 1000hr	45	0	
8	Electrostatic Breakdown Resistance	C=200pF, 0Ω Applied Voltage ±200V Applied once on each pin	11	0	

## 2. Failure Criteria

Group	Failure Criteria	
1	Less than 95% of the immersed part is covered with solder.	
3	50μ m or more	
2, 4~8	Measurement items	Failure Criteria
	VS IS	Which does not meet the electrical characteristics.
	ID	Which does not meet the electrical characteristics. Whose change rate exceeds ±20%.
	Visual Check	An apparent change in appearance is observed.

Measurement conditions are based on the corresponding specification sheet.

For further information of the contents above, please contact our Business Department.