

Displaytech Ltd.

Website: www.displaytech.com.hk

LCD Module Reliability Specification

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14 July 2008.

■ RELIABILITY SPECIFICATION

▼ **Content of Reliability Test**

Environmental Test				
No.	Test Item	Content of Test	Test Condition	Applicable Standard
1	High temperature storage	Endurance test applying the high storage temperature for a long time.	Temperature: as spec. Duration: 200 hrs	-----
2	Low temperature storage	Endurance test applying the low storage temperature for a long time.	Temperature: as spec. Duration: 200 hrs	-----
3	High temperature operation	Endurance test applying the electric stress (Voltage & Current) and the thermal stress to the element for a long time.	Temperature: as spec. Duration: 200 hrs	-----
4	Low temperature operation	Endurance test applying the electric stress under low temperature for a long time.	Temperature: as spec. Duration: 200 hrs	-----
5	High temperature / Humidity storage	Endurance test applying the high temperature and high humidity storage for a long time.	60°C, 90 %RH 96 hrs	MIL-202E-103B JIS-C5023
6	High temperature / Humidity operation	Endurance test applying the electric stress (Voltage & Current) and temperature / humidity stress to the element for a long time.	40°C, 90 %RH 96 hrs	MIL-202E-103B JIS-C5023
7	Temperature cycle	Endurance test applying the low and high temperature cycle. <div style="text-align: center;"> Low temp. \rightleftharpoons 25°C \rightleftharpoons High temp. 30min. \rightleftharpoons 5min. \rightleftharpoons 30min. \leftarrow 1 cycle \rightarrow </div>	Low temp: as spec High temp: as spec Cycles: 10 cycles	-----
Mechanical Test				
8	Vibration test	Endurance test applying the vibration during transportation and using.	10~22Hz \rightarrow 1.5mmp-p 22~500Hz \rightarrow 1.5G Total 0.5hrs	MIL-202E-201A JIS-C5025 JIS-C7022-A-10
9	Shock test	Constructional and mechanical endurance test applying the shock during transportation.	50G half sign wave 11 msec 3 times of each direction	MIL-202E-213B

■ REVISION RECORD

VERSION	CHANGES	DATE
1.0	Initial revision	14 July 2008