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Varitronix International Ltd.
VI-201-DP-RC-S

For any questions, you can email us directly:
sales@integrated-circuit.com

Typical Environmental Tests & Mechanical Tests For LCD

Typical Environmental Tests*

TEMPERATURE TESTS	COMMERCIAL GRADE	EXTENDED GRADE
High temperature storage (IEC 68-2-2)	+70°C/3 days	+85°C/4 day
Low temperature storage (IEC 68-2-1)	-25°C/3 days	-40°C/4 days
Temperature, cyclic (IEC 68-2-14)	-25°C/30 min +25°C/30 min +70°C/30 min +25°C/30 min 10 cycles	-40°C/30 min +25°C/30 min +85°C/30 min +25°C/30 min 10 cycles
Damp heat, cyclic (IEC 68-2-30)	25°C/95% RH/24h 40°C/93% RH/24h 6 cycles	25°C/95% RH/24h 40°C/93% RH/24h 21 cycles
Damp heat, steady state (IEC 68-2-3)	40°C/93% RH every 4 days	40°C/93% RH every 21 days

* Expected lifetime under normal operating conditions
-- 50,000 hours (commercial) /100,000 hours (extended temperature).
These are minimum test. For other specifications, please consult VARITRONIX.

Mechanical Tests

Low air pressure (IEC 68-2-13)	¡@	25°C/86 to 106Pa
Vibration (IEC 68-2-6) cells must be mounted on a suitable connector	frequency ampitude duration	10 to 55 Hz 0.75 mm 20 cycles in each direction
Shock (IEC 68-2-27) Half-sine pulse shape	pulse duration peak acceleration number of shocks	11 ms 981 m/s^2 = 100g 3 shocks in 3 mutually perpendicular axes
Bump (IEC 68-2-29)	pulse duration peak acceleration number of shocks	6 ms 392 m/s2 1000±10

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