



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Typical Environmental Tests & Mechanical Tests For LCD

### Typical Environmental Tests\*

TEMPERATURE TESTS	COMMERCIAL GRADE	EXTENDED GRADE
<b>High temperature storage</b> (IEC 68-2-2)	+70°C/3 days	+85°C/4 day
<b>Low temperature storage</b> (IEC 68-2-1)	-25°C/3 days	-40°C/4 days
<b>Temperature, cyclic</b> (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
<b>Damp heat, cyclic</b> (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
<b>Damp heat, steady state</b> (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

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

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