

## 8. RELIABILITY & SAFETY

### 8.1 Reliability

#### (1)MTBF (Meantime between failure)

30,000 hours at standard power input excluding backlights.

\*Values calculated according to the simplified "Parts Count Reliability Prediction" method as specified in MIL- HDBK-217F.

#### (2)Backlight life

50,000 typ.

25°C for only backlight temperature, at Maximum brightness

### 8.2 Safety Aspect

Anti Low Frequency Electric and Magnetic Field	TCO		measuring distance
	Alternating Electric Fields		
	Band 1 (5 Hz~2 kHz)	< 10 V/m	30 cm and 50 cm from LCD surface
	Band 2 (2 kHz~400 kHz)	< 1 V/m	50 cm around monitor and 30 cm from LCD surface
	Alternating Magnetic Fields		
	Band 1 (5 Hz~2 kHz)	< 200 nT	50 cm around monitor and 30 cm from LCD surface
	Band 2 (2 kHz~400 kHz)	< 25 nT	50 cm around monitor
	Tested on positive (black text against a white background) display mode. Test resolution: 1024 x 768 @75 Hz All values are RMS.		
Leakage Current	Less than 0.25 mA at 100 VAC Less than 3.5 mA at 264 VAC		

## 9. OPERATING ENVIRONMENT SPECIFICATIONS

Ambient Temperature	Operation: 0 °C~35 °C (32 °F~95 °F), (The surface of LCD must be lower than 60 °C<140 °F>.) Storage : -20 °C~60 °C(-4 °F~140 °F) (To be kept for 4 hours at 25 °C <77°K> before use.)		
Ambient Humidity	Operation & Storage: 30 %-80 % R.H. Non condensing		
Altitude	Operation: up to 3,000 m (9,840 ft.) Shipping or Storage: up to 12,000 m (39,370 ft.)		
Vibration (Standard Package)	To be free from any damage on the vibration test (left/right, up/down, forward/backward) to be carried out under the following conditions. (Condition) Frequency: 5~100~5 Hz in every 10 minutes Speed: 1.0G Time: 1 hour for each direction		
Drop Test (Standard Package)	To be free from any damage on free drop from 90 cm height. To be validated one corner, three edges and six faces.		
Electrostatic Discharge	Based on IEC801-2 (1991)		
	Air Discharge	Contact Discharge	Discharge Impedance
Voltage	8 kV	4 kV	330 Ω/150 pF