

2002/5/20

ISE ELECTRONICS CORP.  
PRODUCTS END. DEPT.

Reliability prediction of GU384X32L-3100  
DS-868-1000-00

[T<sub>a</sub> = 25°C]

| 部品名                     | Qty.<br>(np) | Fail. Rate(Fit)<br>(p) x 10E-9 | np * p(Fit)<br>x 10E-9 |
|-------------------------|--------------|--------------------------------|------------------------|
| CPU                     | 1            | 76                             | 76                     |
| Flash ROM               | 1            | 100                            | 100                    |
| C-MOS IC/TTLIC          | 8            | 22                             | 176                    |
| Other IC                | 3            | 2                              | 6                      |
| Interface IC            | 16           | 18                             | 288                    |
| Transistor              | 21           | 2                              | 42                     |
| Diode & Zener           | 22           | 10                             | 220                    |
| Capasitor Electr AL     | 2            | 20                             | 40                     |
| Capasitor Ceramic       | 67           | 0.41                           | 27.47                  |
| Resistor Fixed          | 85           | 0.025                          | 2.125                  |
| Resistor Network        | 21           | 0.028                          | 0.588                  |
| Coil                    | 3            | 2                              | 6                      |
| XTAL                    | 1            | 20                             | 20                     |
| Fuse                    | 2            | 10                             | 20                     |
| PC Board                | 1            | 10                             | 10                     |
| Connector (16pin)       | 1            | 0.48                           | 0.48                   |
| Connector (5pin)        | 1            | 1.8                            | 1.8                    |
| Connector (7pin)        | 1            | 1.8                            | 1.8                    |
| DIP Switch              | 1            | 5                              | 5                      |
| VFD                     | 1            | 700                            | 700                    |
| Soldering Point (SMD)   | 941          | 0.069                          | 64.929                 |
| Soldering Point (other) | 56           | 2.6                            | 145.6                  |
| Total (Fit)             | -            | -                              | 1953.792               |
| MTBF (Hrs)              | -            | -                              | 511,825                |

|     | SIGN            | DATE      |
|-----|-----------------|-----------|
| APP | <i>M. Saito</i> | 2002.5.20 |
| CH  | <i>H. Ito</i>   | 2002.5.20 |
| DR  | <i>T. Oki</i>   | 2002.5.20 |