

2006/6/12

NORITAKE ITRON CORP.

PRODUCTS END. DEPT.

Reliability prediction of GU256X128C-3100/3900  
DS-903-1000-00

[T a = 25°C]

| Item                   | 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         | 4            | 22                              | 88                     |
| Other IC               | 3            | 2                               | 6                      |
| Interface IC           | 1            | 18                              | 18                     |
| Transistor             | 10           | 2                               | 20                     |
| Diode & Zener          | 12           | 10                              | 120                    |
| Capasitor Electr AL    | 1            | 20                              | 20                     |
| Capasitor Ceramic      | 53           | 0.41                            | 21.73                  |
| Resistor Fixed         | 60           | 0.025                           | 1.5                    |
| Resistor Network       | 19           | 0.028                           | 0.532                  |
| 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(7pin)        | 1            | 1.8                             | 1.8                    |
| DIP Switch             | 1            | 5                               | 5                      |
| VFD                    | 1            | 700                             | 700                    |
| Soldering Point(SMD)   | 659          | 0.069                           | 45.471                 |
| Soldering Point(other) | 59           | 2.6                             | 153.4                  |
| Total(Fit)             | -            | -                               | 1433.913               |
| MTBF(Hrs)              | -            | -                               | 697,392                |

|     | SIGN | DATE       |
|-----|------|------------|
| APP |      | 06.06.12   |
| CH  |      | 2006.06.12 |
| DR  |      | 06.06.12   |