

## Safe Using on NIEC Products

In the interest of product improvement, Nihon Inter Electronics Corporation (NIEC) reserves the right to change specifications without notice, and so use of the updated version of Date Book or Specifications and Catalog are requested.

For more safer use of NIEC Products listed herein, Users of NIEC Products shall be requested to understand the contents of CAUTION ON USE described herein.

### **Warnings**

In the event of possibilities of any losses of human life, bodily injury and damage to property resulting from NIEC Products failure or malfunction, Users of NIEC Product are surely requested to use the adequate protection device or circuit in its particular applications of equipments.

### **Cautions**

#### 1. Short-circuit and/or Open-circuit of the Products

Applying voltage, current and temperature in excess of the maximum ratings specified herein to NIEC Products may cause failure or malfunction resulting from short-circuit and/or open-circuit conditions.

In case that use of NIEC Products under such unforeseen conditions as overvoltage, overcurrent, temperature and mechanical stress may cause breakdown the Products and/or failure or malfunction resulting from short-circuit and/or open-circuit conditions, therefore, Users of NIEC Products are requested to use the adequate protection device or circuit in its particular applications of equipments.

#### 2. Electric Shock and/or Burn Injury.

Touching or Handling directly with terminals or case of NIEC Products in operation or in live circuit may get an electric shock and/or suffer burn injury.

#### 3. Fire and/or Smoking

Failure or Malfunction of NIEC Products may catch fire and/or emit smoke.

Use of NIEC Products in operation near flammable and/or heat generating places may catch fire and/or emit smoke because its terminals or case may reach a high temperature.

#### 4. Corrosion and/or Oxidization

Use and/or Storage of NIEC Products at high humidity and/or corrosive gases emitting places are requested to avoid because it may cause corrosion and/or oxidization of terminals and/or case of the Products, and so, it may be the cause of the trouble and failure resulting from such use and/or storage.

## Notices for Safety Design

- Nihon Inter Electronics Corporation (NIEC) is always endeavoring to maintain and improve the quality and reliability of NIEC Products. Nevertheless, any failure with some probabilities of semiconductor devices may be generally inevitable, therefore, Users of NIEC Semiconductor Products listed herein are requested to make adequate safety design and design validation for the equipments and systems at the users' own risk in order to prevent any losses of human life, bodily injury and damage to property due to semiconductor device failure or malfunction.
- Users of NIEC Products listed herein are requested to make consideration and determination at the users' self-responsibility for the suitable combination use between NIEC Products and the intended application or purpose.
- In case of use of NIEC Products listed herein in its particular applications of equipments requiring high reliability and high safety, Users of NIEC Products are requested to ensure the fail-safe design and aging at the users' self-responsibility.
- NIEC Products listed herein are not designed for radiation-proof.

## Notices for Use

- NIEC can assume no full responsibility for any infringement of intellectual property rights and any other rights of NIEC or any third parties resulting from its use of the products data, drawings, figures and other circuits described herein.
- NIEC Products listed herein are designed and intended for the use of its devices in general electrical and electronics equipments or apparatus (such as office electronics equipment, measuring instrument, industrial robot, computer, personal digital assistance, home appliance and suchlike). And so, when considering the use of NIEC Products in its applications of equipments requiring high quality and reliability (such as transportation equipment, atomic power control apparatus, traffic control signal system, disaster prevention equipment, security equipment and safety apparatus), Users of NIEC Products are requested to consult with NIEC sales representative without fail and to approve the Specifications of NIEC products.
- Users of NIEC Products may not use, without written consent of NIEC, the Products listed herein in its applications of equipments requiring extremely higher quality and reliability (such as aerospace equipment, atomic power control apparatus, medical equipment for life support system, etc.).
- NIEC Products listed herein should not be used to any prohibited applications of equipments or apparatus for manufacturing and sales under the related laws and regulations of domestic and foreign. And so, with reference to export restriction, relevant NIEC Products of listed herein are subject to the export license under the related laws and regulations.
- For further information, please contact your local NIEC sales representative or sales agent.



## CERTIFICATE OF APPROVAL

*This is to certify that the Quality Management System of:*

***Nihon Inter Electronics Corporation  
Head Office and Factory  
Hadano-shi, Kanagawa-ken  
Japan***

*has been approved by Lloyd's Register Quality Assurance Limited  
to the following Quality Management System Standards:*

***ISO 9001:2000, JIS Q 9001:2000***

*The Quality Management System is applicable to:*

***Development, design, manufacture and sales of  
semiconductor devices and modules.***

*This certificate is valid only in association with the certificate schedule bearing the same  
number on which the locations applicable to this approval are listed.*

*Approval*  
Certificate No: JBC 0933129

*Original Approval:* 20 July 1994

*Current Certificate:* 13 June 2003

*Certificate Expiry:* 30 June 2006

  
Issued by: LRQA Yokohama



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QS Accreditation  
R 016

*This document is subject to the provision on the reverse.*

*This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.  
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001*

Macro Revision 10



## CERTIFICATE OF APPROVAL

*This is to certify that the Environmental Management System of:*

***Nihon Inter Electronics Corporation  
Head Office  
Soya, Hadano-shi, Kanagawa-ken  
Tokawa Fab.  
Tokawa, Hadano-shi, Kanagawa-ken  
Japan***

*has been approved by Lloyd's Register Quality Assurance Limited  
to the following Environmental Management System Standards:*

**ISO 14001: 1996, JIS Q 14001: 1996**

*The Environmental Management System is applicable to:*


***Site activities associated with the design, development and  
manufacture of semiconductor devices and modules in  
accordance with the publicly available environmental policy.***

*Approval  
Certificate No: JBC 0772533*

*Original Approval: 19 November 1999*

*Current Certificate: 20 May 2003*

*Certificate Expiry: 30 November 2005*

  
*Issued by: LRQA Yokohama*



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*This document is subject to the provision on the reverse.*

*This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.  
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001  
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