To our customers,

Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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RENESAS

RENESAS TECHNICAL UPDATE

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan
Renesas Technology Corp.

Product Category	MPU/MCU			Document No.	TN-16C-A186A/E	Rev.	1.00
Title	M16C/63 Group, M16C/6C Group Easing the Limitation of the Debugging Interface			Information Category	Technical Notification		
Applicable Products	M16C/63 Group, M16C/6C Group	Lot No.		Reference Document			
		__					

A 1-wire debugging interface is now available for the E8a emulator.

1. Applicable Products

   M16C/63 Group and M16C/6C Group MCUs produced on or after the first week in 2010.

   Check the product data code for production year and week.

2. Contents

   Previously, the interface between the E8a emulator and MCU was a 2-wire clock asynchronous serial I/O. A 1-wire clock asynchronous serial I/O has been added.

   Therefore, 1-wire clock asynchronous serial I/O can be selected for the products listed above. Refer to the following documents for more information on the connection method:

   M16C/63 Group "E8a Emulator Additional Document for User's Manual R0E00008AKCE00 EP50"

   M16C/6C Group "E8a Emulator Additional Document for User's Manual R0E00008AKCE00 EP47"

3. Date code

   The date code is listed in the marking of the package.

   Figure 1 shows the marking diagram of the M16C/63 Group. Figure 2 shows the marking diagram of the M16C/6C Group.

   For example, "001xxxx" indicates the first week of 2010.

PRQP0100JD-B (100P6F-A), PLQP0100KB-A (100P6Q-A), PLQP0080KB-A (80P6Q-A)

M 1 6 C
R 5 F 3 6 3 A 6 D F A — Type No.

Date code ⟶ X X X X X X
— Running No. 0 to 9, A to Z (except for I, O, Q)

O
— Week code (from 01 to 54)

— Last digit of year

PTLG0100KA-A (100F0M)

R 5 F 3 6 3 A 6
N L G — Type No.

Date code ⟶ X X X X X X
— Running No. 0 to 9, A to Z (except for I, O, Q)

O   J A P A N — Country of production

— Week code (from 01 to 54)

— Last digit of year
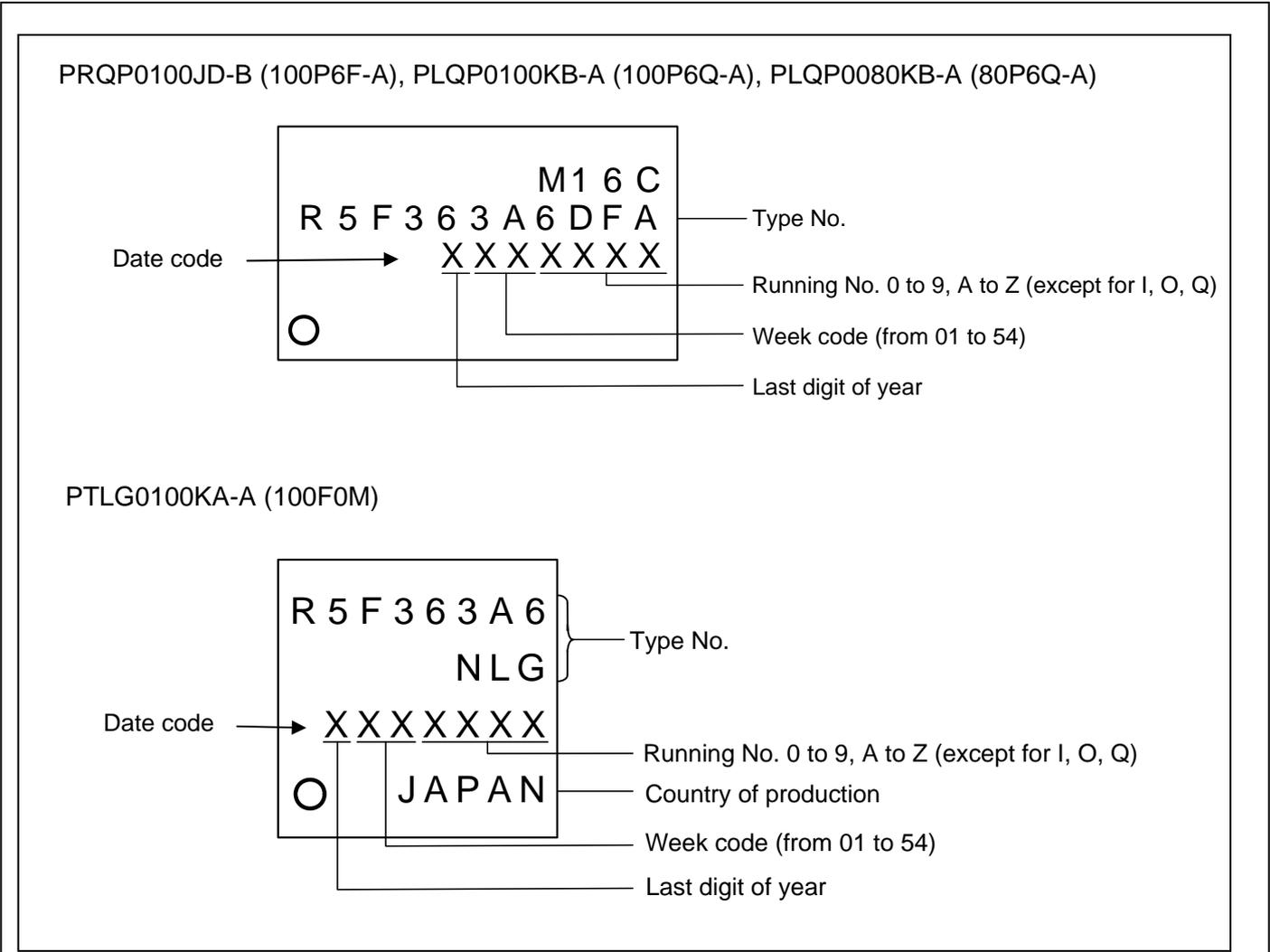
Figure 1: M16C/63 Group Marking Diagram

M 1 6 C
R 5 F 3 6 C A M D F B — Type No.

Date code ⟶ X X X X X X

— Running No. 0 to 9, A to Z (except for I, O, Q)

— Week code (from 01 to 54)

— Last one digit of year
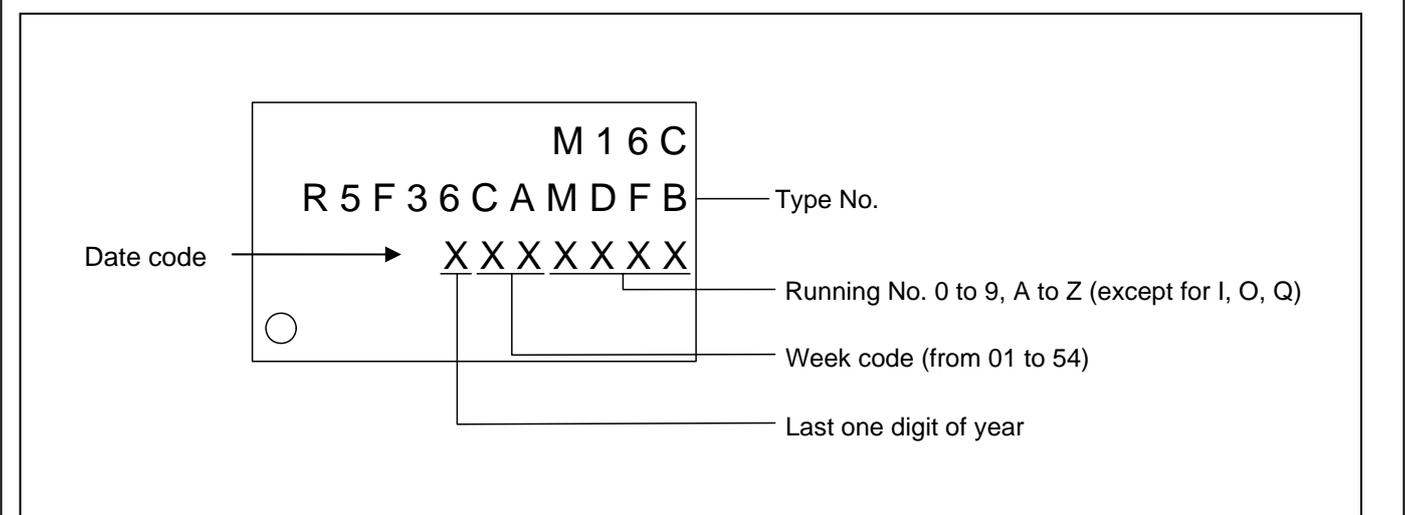
Figure 2: M16C/6C Group Marking Diagram

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