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)

Send any inquiries to http://www.renesas.com/inquiry.

RENESAS

REJ19B0636-0100

Mask ROM number	

RENESAS TECHNOLOGY SINGLE-CHIP 16-BIT MICROCOMPUTER M30240M5-XXXFP MASK ROM CONFIRMATION FORM

Receipt	Date:	
	Section head signature	Supervisor signature

Note : Please fill in all items marked ※.

※ Customer	Company name		TEL ( )	Issuance signature	Submitted by	Supervisor
	Date issued	Date:				

※ 1. Check sheet

Name the product you order, and choose which to give in, EPROMs or floppy disk.

If you order by means of EPROMs, a set of three EPROMs is required per pattern. If you order by means of floppy disk, one floppy disk is required per pattern.
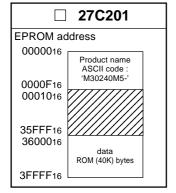
☐ In the case of EPROMs

Renesas will create the mask using the data on the EPROMs supplied, providing the data is the same on at least two of the set. Renesas will, therefore, only accept liability if there is any discrepancy between the data on the EPROM set and the ROM data written to the product.

Please carefully check the data on the EPROMs being submitted to Renesas.

Checksum code for total EPROM area: | | | | | (hex)

EPROM type (indicate the type used)

☐ **27C201**
EPROM address
0000_{16}
Product name ASCII code : 'M30240M5-'
$0000F_{16}$
00010_{16}
$35FFF_{16}$
36000_{16}
data ROM (40K) bytes
$3FFFF_{16}$

(1) Write "FF_{16}" to the lined area.

(2) The area from 00000_{16} to $0000F_{16}$ is for storing data on the product type name.

The ASCII code for "M30240M5−" is shown at right. The data in this table must be written to address 00000_{16} to $0000F_{16}$.

Both address and data are shown in hex.

Address		Address	
00000_{16}	'M' = $4D_{16}$	00008_{16}	'−' = $2D_{16}$
00001_{16}	'3' = 33_{16}	00009_{16}	FF_{16}
00002_{16}	'0' = 30_{16}	$0000A_{16}$	FF_{16}
00003_{16}	'2' = 32_{16}	$0000B_{16}$	FF_{16}
00004_{16}	'4' = 34_{16}	$0000C_{16}$	FF_{16}
00005_{16}	'0' = 30_{16}	$0000D_{16}$	FF_{16}
00006_{16}	'M' = $4D_{16}$	$0000E_{16}$	FF_{16}
00007_{16}	'5' = 35_{16}	$0000F_{16}$	FF_{16}

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The ASCII code for the type No. can be written to EPROM addresses 0000_{16} to $0000F_{16}$ by specifying the pseudo-instructions for the respective EPROM type shown in the following table at the beginning of the assembler source program.

EPROM type	27C201
Code entered in source program	△ .SECTION △ ASCIICODE,ROM DATA △ .ORG △ 0C0000H △ .BYTE △ 'M30240M5–'

Note : The ROM cannot be processed if the type No. written to the EPROM dose not match the type No. in the check sheets.

☐ In the case of floppy disk
Renesas processes the mask files generated by the Mask Make utility (MM:Note) out of those held on the floppy disks you give in to us, and forms them into masks. Hence, we assume liability provided that there is any discrepancy between the contents of these mask files and the ROM data to be burned into products we produce. Check thoroughly the contents of the mask files you give in.
Prepare 3.5 inches 2HD (IBMπ format) floppy disk. And store only one mask file in a floppy disk.
Do not include the ASCII codes of the product name, the optional data, and so on to the machine language file that is read by MM, if this order is performed by a floppy disk.

File code ☐☐☐☐☐☐☐☐ (hex)

Mask file name ☐☐☐☐☐☐☐☐ .MSK (alpha-numeric 8-digit)

Note : Can be downloaded from the following website.
http://www.tool-spt.mesc.co.jp/maskmake/mm-e.htm

❋ 2. Mark specification
The mark specification differs according to the type of package. After entering the mark specification on the separate mark specification sheet (for each package), attach that sheet to this masking check sheet for submission to Renesas.
For the M30240M5-XXXFP, submit the 80P6N mark specification sheet.

❋ 3. Usage conditions
For our reference when of testing our products, please reply to the following questions about the usage of the products you ordered.

(1) Which kind of X_{IN}-X_{OUT} oscillation circuit is used?

☐ Ceramic resonator   ☐ Quartz-crystal oscillator

☐ External clock input   ☐ Other (   )

(2) What frequency do you use?

$f(X_{IN})$ = ☐☐☐☐ MHz

❋ 4. Comments