

To our customers,

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## Old Company Name in Catalogs and Other Documents

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

April 1<sup>st</sup>, 2010  
Renesas Electronics Corporation

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

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To all our customers

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Note : Mitsubishi Electric will continue the business operations of high frequency & optical devices and power devices.

Renesas Technology Corp.  
Customer Support Dept.  
April 1, 2003

# M37532T-PTC

## Instruction Manual

Converter for Connecting 42-pin 1.778mm-pitch SDIP  
to 40-pin Narrow-pitch Connector

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**CAUTION**

If the requirements shown in the "CAUTION" sentences are ignored, the equipment may cause personal injury or damage to the products.

Third Edition: October 1999

Mitsubishi Electric Corporation

Mitsubishi Electric Semiconductor Systems Corporation

(1/4) **RENESAS**  
Renesas Technology Corp.

## 1. Description

M37532T-PTC is a conversion board to convert 42-pin SDIP (42P4B) of 7530 group of Mitsubishi 740 Family MCUs to 36-pin 0.8mm-pitch LQFP (36P2R-A) of M37532 MCU. This board is to be used with dummy IC SSOP36-45 0-40 (separately available).

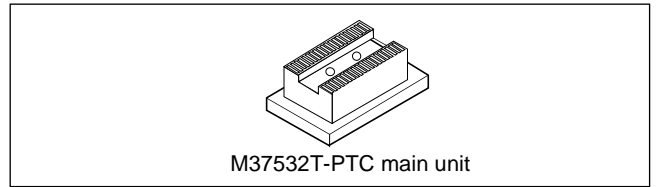


Figure 1 Package components of M37532T-PTC

## 2. Package Components (see Figure 1)

- (1) M37532T-PTC conversion board
- (2) M37532T-PTC Instruction Manual (this manual)

## 3. Specifications

Table 1 Specifications

Item	Description
Package	36P2R-A (36-pin 0.8mm-pitch SSOP)
Insertion/removal iterations of connector	50 times guaranteed

## 4. Application (see Figure 2)

Mount the socket on the target. On top of it, mount SSOP36-450-40 and the socket frame in that order. Then connect the probe of the emulation pod to the connector provided at the top of M37532T-PTC.

## 5. Connection Procedure (see Figure 2)

- (1) Mount the socket (included with SSOP36-450-40: separately available).
- (2) Attach SSOP36-450-40 to the socket.
- (3) Attach the socket frame (included with SSOP36-450-40).
- (4) Connect the probe of the emulation pod to M37532T-PTC.
- (5) Attach M37532T-PTC to SSOP36-450-40.

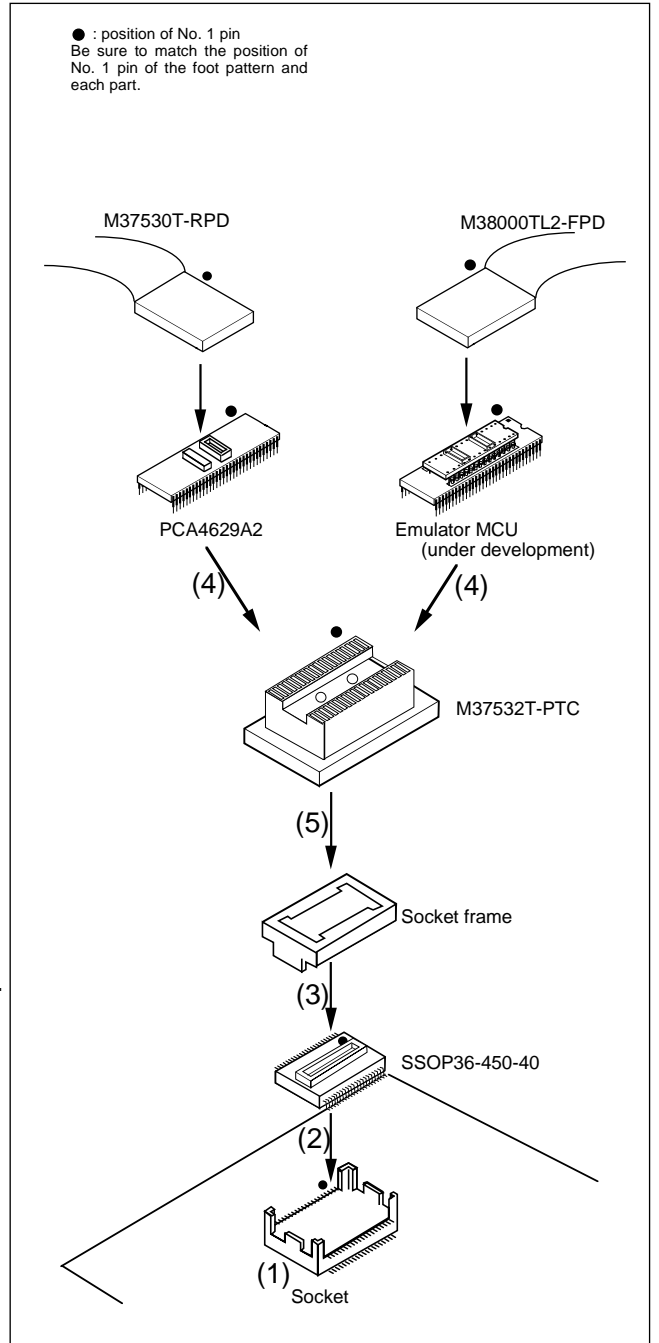


Figure 2 Usage of M37532T-PTC

## 6. External Dimensions of M37532T-PTC

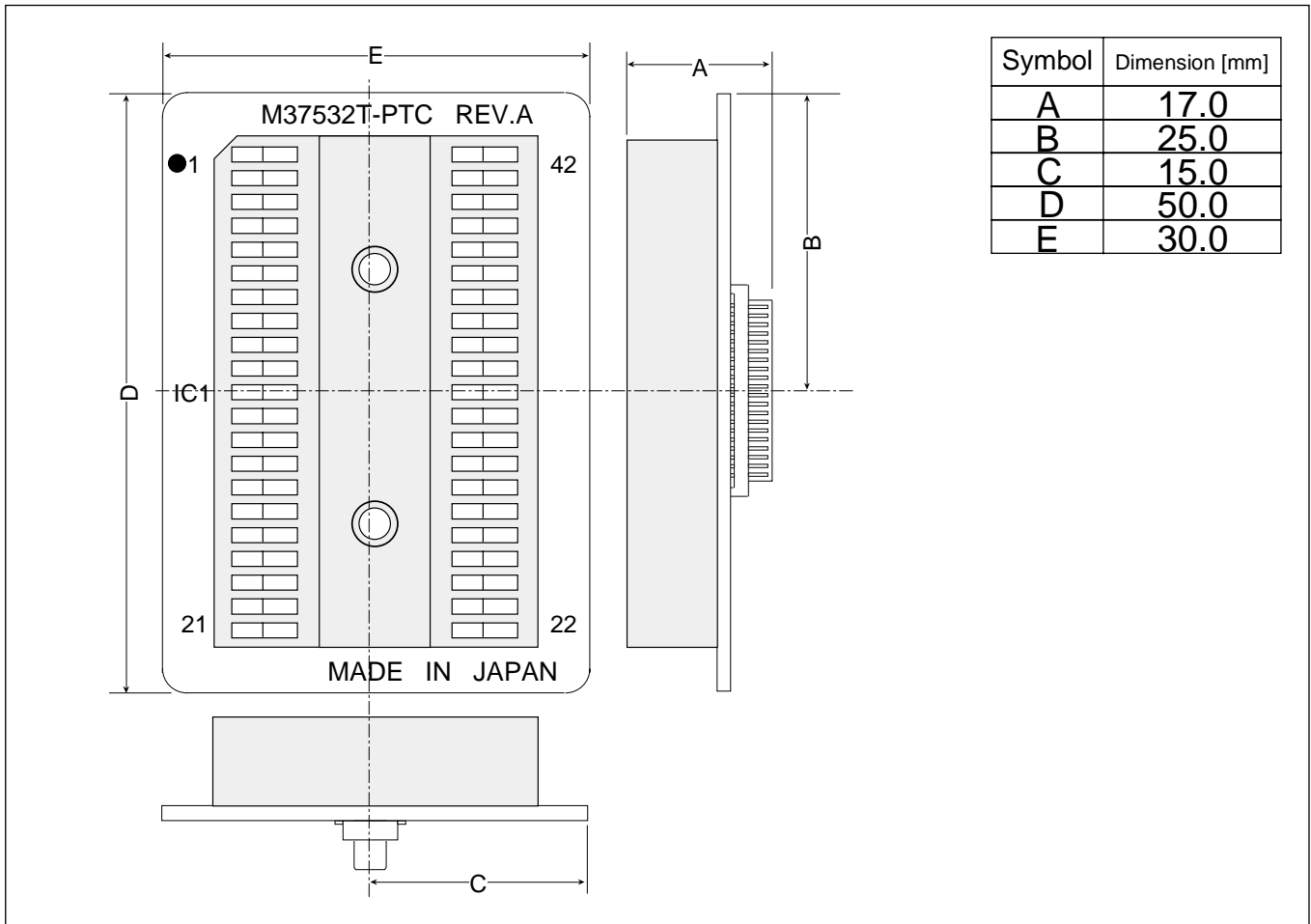



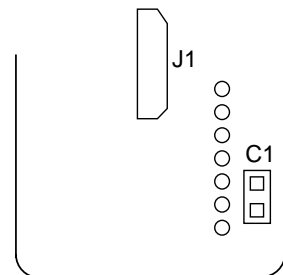
Figure 3 External dimension of M37532T-PTC

## 7. Precautions

### ⚠ CAUTION

Cautions To Be Taken for This Product:

- 
 Foot patterns are provided so that the surface-mounted capacitor (C1) can be mounted on IC1-pin 18 (Vcc) and IC1-pin 21 (GND). Use these patterns for a bypass capacitor.



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## 8. Correspondence of Connectors IC1 and J1

Table 2 lists the correspondence of IC1 and J1.

Table 2 Correspondence of IC1 and J1

IC1 pin No.	J1 connector pin No.	IC1 pin No.	J1 connector pin No.
1	J1-4	22	J1-22
2	NC	23	J1-23
3	NC	24	J1-24
4	J1-5	25	J1-25
5	J1-6	26	J1-26
6	NC	27	J1-27
7	J1-7	28	NC
8	J1-8	29	J1-28
9	J1-9	30	J1-29
10	J1-10	31	J1-30
11	J1-11	32	J1-31
12	J1-12	33	J1-32
13	NC	34	J1-33
14	NC	35	J1-34
15	J1-13	36	J1-35
16	J1-14	37	J1-36
17	J1-15	38	J1-37
18	J1-16	39	J1-38
19	J1-17	40	J1-39
20	J1-18	41	J1-2
21	J1-19	42	J1-3

(NC: not connected)