

M37530T-PTCB

Converter Board for 32-pin 0.8mm pitch LQFP for 7534, 7540, 7542, 7544 and 7546 Groups

User's Manual

Keep safety first in your circuit designs!

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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.

Renesas Tools Homepage <http://www.renesas.com/en/tools>

1. Outline

The M37530T-PTCB, by combining with the M37530T-PTC converter board, is a converter board for connecting the 42DIP package to the package for 32-pin 0.8mm pitch LQFP (PLQP0032GB-A).

2. Package Components (See Figure 1)

- (1) M37530T-PTCB converter board..... 1 pc.
- (2) TQSOCKET032SAF..... 1 pc.
- (3) TQPACK032SA..... 1 pc.
- (4) M37530T-PTCB User's Manual (This manual)

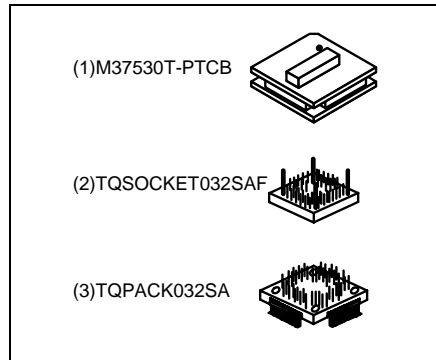


Figure 1 Package components of the M37530T-PTCB

3. Specifications

Table 1 Specifications

Applicable package	PLQP0032GB-A (Previous code: 32P6U-A) (32-pin 0.8mm pitch LQFP)
Insertion/removal iterations of connector	50 times guaranteed

4. Usage

The M37530T-PTCB can only be used for debugging.
The M37530T-PTCB can be used for debugging and on-board evaluation in common by mounting the NQPACK032SA (not included) on the user system.

- (1) For debugging 1
Mount the TQPACK032SA on the foot pattern of the user system and attach the TQSOCKET032SAF on it. And connect the M37530T-PTCB to the TQSOCKET032SAF.
- (2) For debugging 2 (Using NQPACK)
Mount the NQPACK032SA (not included) on the foot pattern of the user system and attach the YQPACK032SA (not included) on it. Next, mount two of the YQSOCKET032SAF (not included) on M37530T-PTCB. Then connect the M37530T-PTCB to the YQPACK032SA
- (3) For on-board evaluation
Mount an MCU with QzROM and HQPACK032SA (not included) in that order on the NQPACK032SA (not included) of the user system.

Before using the M37530T-PTCB, be sure to read "7. Precautions" on page 4.

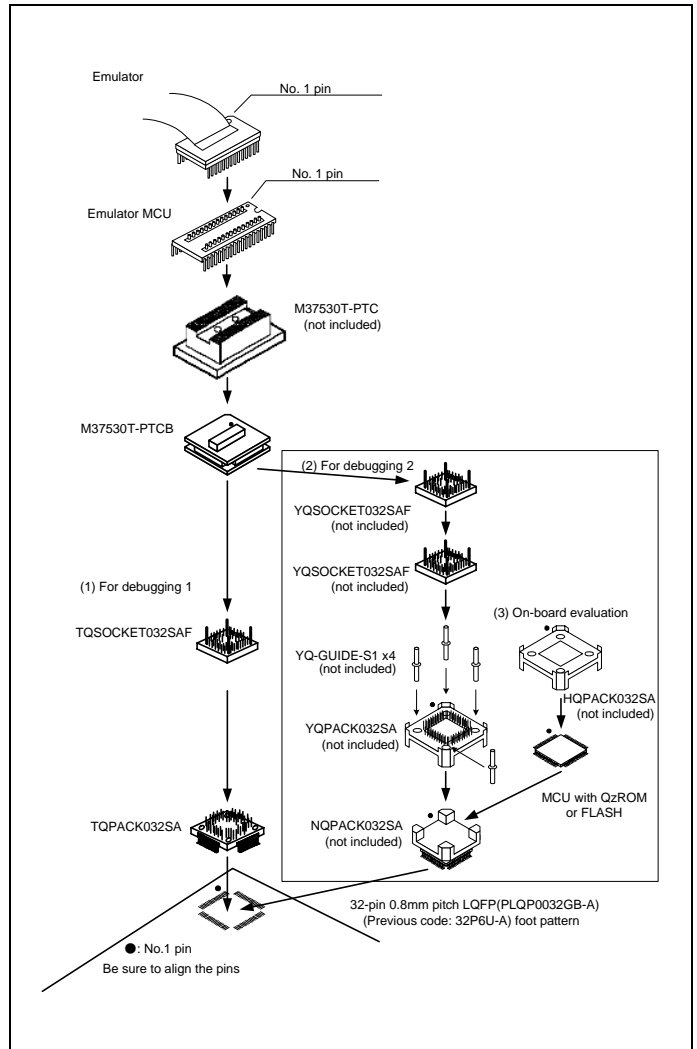


Figure 2 Usage of the M37530T-PTCB

5. External Dimensions

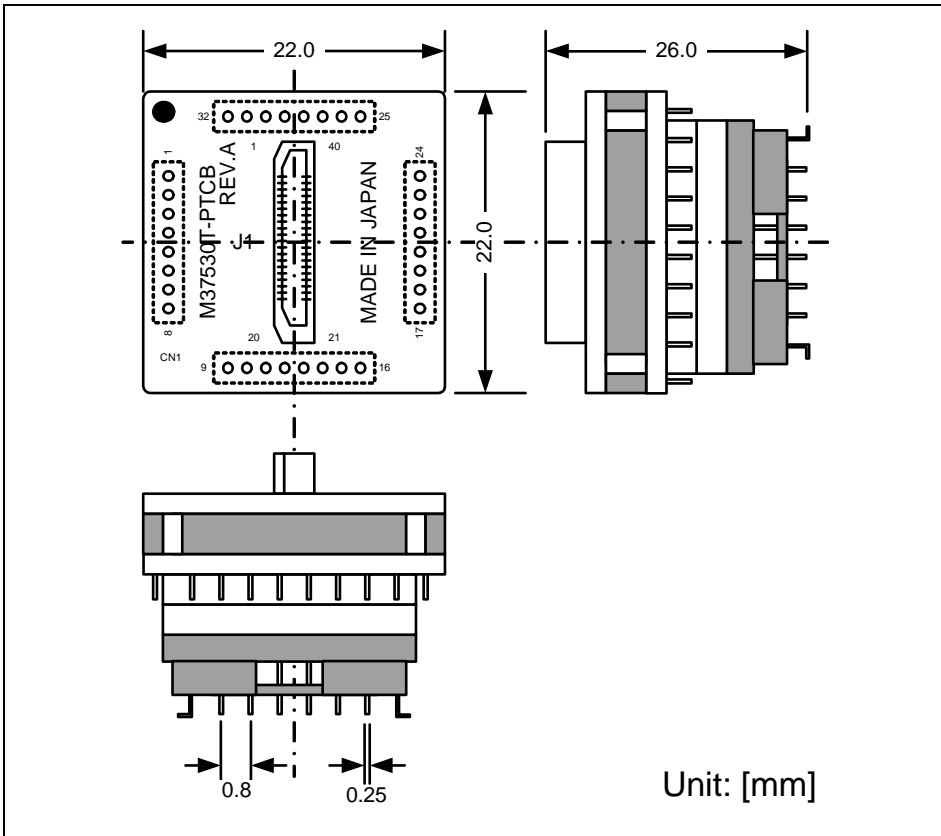


Figure 3 External dimensions of the M37530T-PTCB

6. Sample Foot Pattern

Figure 4 shows the sample foot pattern

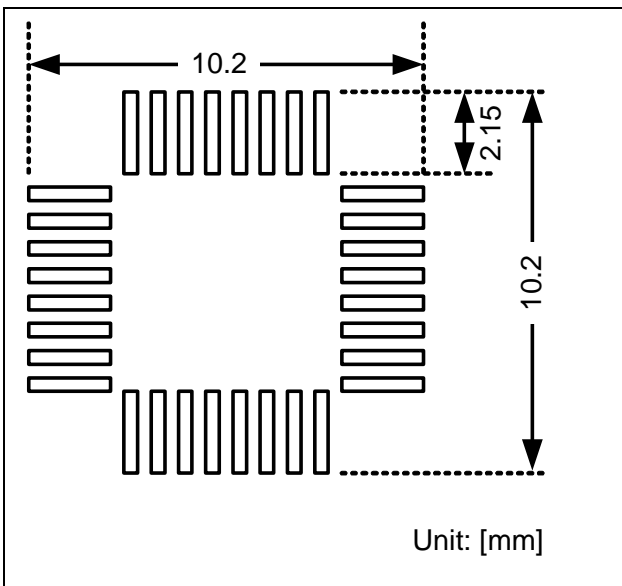


Figure 4 Sample Foot Pattern

7. Precautions

⚠ CAUTION

Caution to Be Taken for This Product:



- When connecting the YQPACK032SA, be sure to use the included YQ-GUIDE-SI.
- Do NOT use the screws included with the YQPACK032SA for connecting the YQPACK032SA.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the TQPACK32SA, TQSOCKET032SAF, YQSOCKET032SAF, NQPACK032SA, YQPACK032SA, HQPACK032SA, contact the following:
Tokyo Eletech Corporation
- For inquiries about the product or the contents of this manual, contact your local distributor.
Renesas Tools Homepage <http://www.renesas.com/en/tools>

8. Correspondence of Connectors

Table 2 Correspondence of the connectors

J1 connector Pin No.	CN1 connector Pin No.	J1 connector Pin No.	CN1 connector Pin No.
J1-1	NC	J1-21	NC
J1-2	28	J1-22	12
J1-3	29	J1-23	13
J1-4	30	J1-24	14
J1-5	31	J1-25	15
J1-6	32	J1-26	16
J1-7	1	J1-27	NC
J1-8	2	J1-28	NC
J1-9	3	J1-29	17
J1-10	4	J1-30	18
J1-11	NC	J1-31	19
J1-12	NC	J1-32	20
J1-13	5	J1-33	21
J1-14	6	J1-34	22
J1-15	7	J1-35	23
J1-16	8	J1-36	24
J1-17	9	J1-37	25
J1-18	10	J1-38	26
J1-19	11	J1-39	27
J1-20	NC	J1-40	NC

("NC": No connection)

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