

M30290T-80FPD

Converter Board for 80-pin 0.5-mm-pitch LQFP

User's Manual

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Keep safety first in your circuit designs!

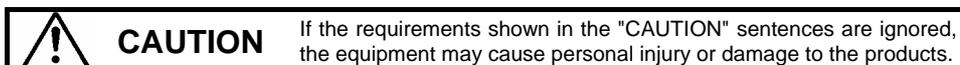
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1. Outline

The M30290T-80FPD is a converter board for connecting the emulation probe M30290T-EPB for M16C/26A, 28, 29 Groups and the compact emulator M30290T2-CPE to a foot pattern for M16C/28, 29 Group 80-pin 0.5-mm-pitch LQFP (80P6Q-A).

2. Package Components (See Figure 1)

- (1) M30290T-80FPD (Base board M30290T-PTCB and 150-mm FFC cable included) 1 pc.
- (2) YQPACK080SD (made by Tokyo Eletech Corporation) 1 pc.
- (3) NQPACK080SD-ND
(made by Tokyo Eletech Corporation) 1 pc.
- (4) YQ-GUIDE (made by Tokyo Eletech Corporation) 4 pcs.
- (5) M30290T-80FPD User's Manual (This manual) 1 pc.

3. Specifications

Table 1 Specifications

Applicable package	80P6Q-A (80-pin 0.5-mm-pitch LQFP)
Insertion/removal iterations of connector	Between M30290T-80FPD and YQPACK080SD: 100 times guaranteed
	Between M30290T-EPB or M30290T2-CPE and M30290T-80FPD: 50 times guaranteed

4. Usage (See Figure 2)

The M30290T-80FPD can be used for debugging and board mounted evaluation in common by mounting the NQPACK080SD-ND on the user system.

- (1) For debugging
Mount the NQPACK080SD-ND and YQPACK080SD on the foot pattern of the user system in that order. And fix them with the YQ-GUIDE's (do not use the screws included with the YQPACK080SD).
After connecting the M30290T-EPB or M30290T2-CPE and M30290T-80FPD, connect the M30290T-80FPD to the YQPACK080SD.
- (2) For onboard evaluation
Mount an M16C/28, 29 Group MCU and HQPACK080SD (separately available) in that order on the NQPACK080SD-ND on the user system. And fix them using screw included with the HQPACK080SD.

Before using the M30290T-80FPD, be sure to read "7. Precautions" on page 4 and the M30290T-EPB or M30290T2-CPE User's Manual.

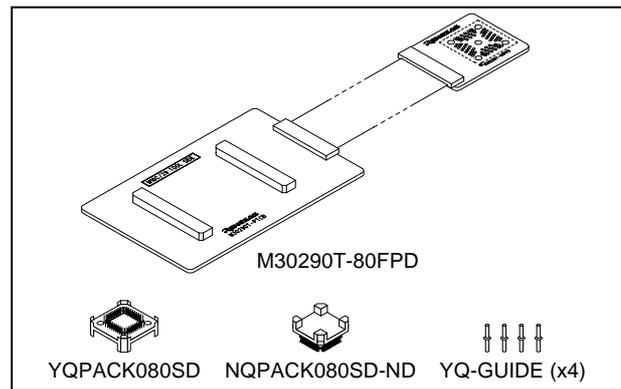


Figure 1 Package components of the M30290T-80FPD

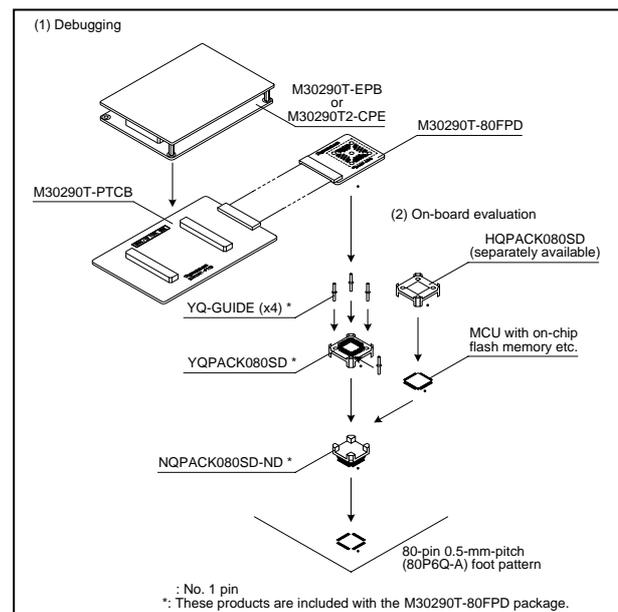


Figure 2 Usage of the M30290T-80FPD

5. Connection Procedure (See Figure 3)

The procedure for connecting the M30290T-80FPD is shown below.

- (1) Mount the NQPACK080SD-ND on the user system.
- (2) Attach the YQPACK080SD on the NQPACK080SD-ND.
- (3) Secure the four corners of the YQPACK080SD with the YQ-GUIDE's.

- Do not use the screws included with the YQPACK080SD for fixing the YQPACK080SD.
- The screwdriver included with the NQPACK080SD-ND is used for fixing the YQPACK080SD. Do not use it for fixing the YQ-GUIDE's.

- (4) Attach the M30290T-EPB or M30290T2-CPE and the M30290T-PTCB.
- (5) Attach the M30290T-80FPD to the NQPACK080SD-ND.

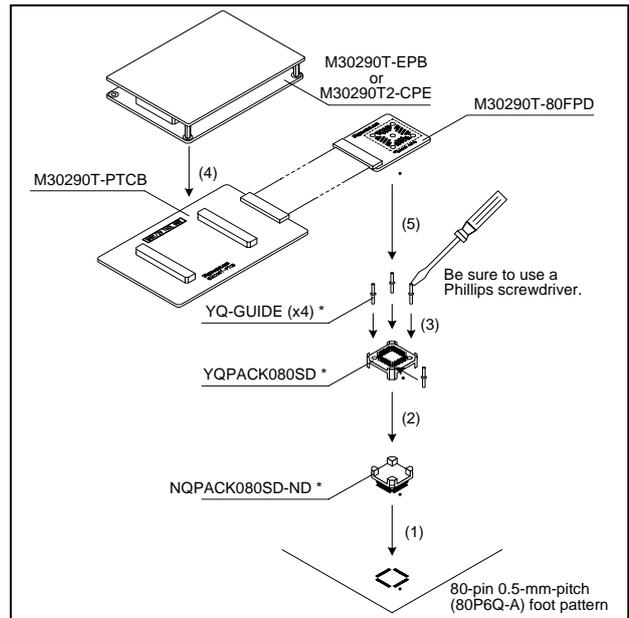


Figure 3 Connection procedure of the M30290T-80FPD

6. External Dimensions and a Sample Foot Pattern (See Figure 4)

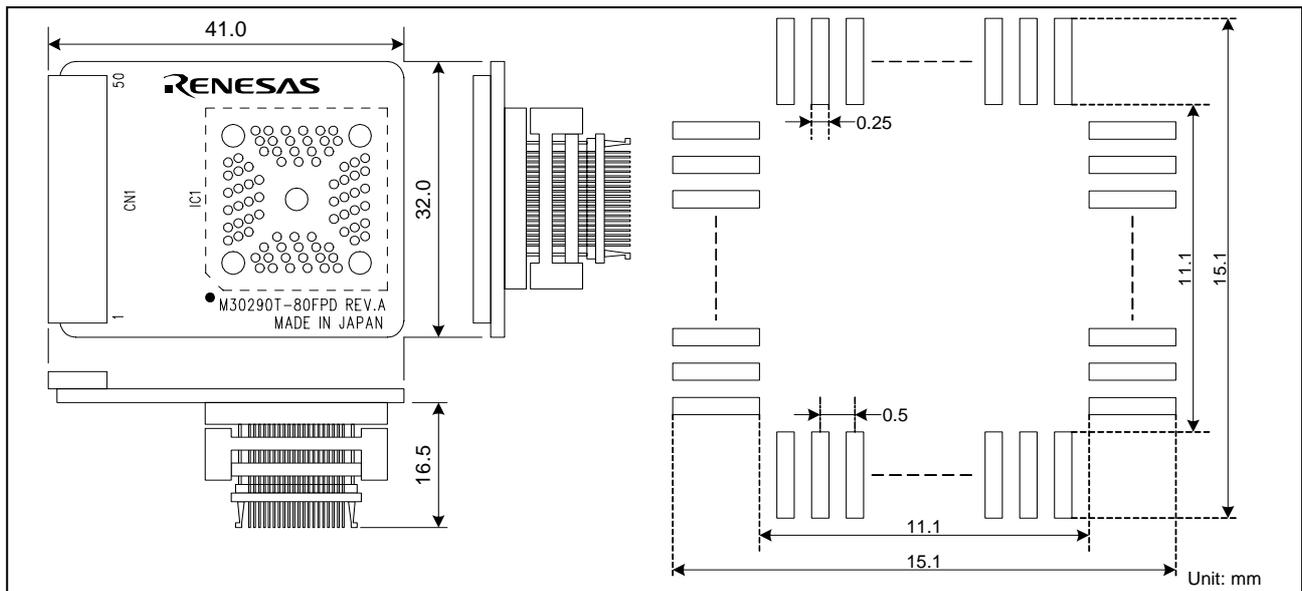


Figure 4 External dimensions and a sample foot pattern of the M30290T-80FPD

7. Precautions

CAUTION

Cautions to Be Taken for This Product:



- Do not pull or excessively flex the cable. The cable may cause a break.
- When connecting the YQPACK080SD, be sure to use the included YQ-GUIDE's.
- Do not use the screws included with the YQPACK080SD to fix it.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK080SD-ND, YQPACK080SD and HQPACK080SD, contact the following:
Daimaru Kogyo Ltd. <http://www.daimarukogyo.co.jp/>
Tokyo Eletech Corporation http://www.tetc.co.jp/e_tet.htm
- For inquiries about the product or the contents of this manual, contact your local distributor.
Renesas Tools Homepage <http://www.renesas.com/en/tools>