

R0E53035ACFJ50

Converter Board for Connecting R8C/35A Group 52-pin 0.65mm pitch LQFP

User's Manual

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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.

1. Outline

The R0E53035ACFJ50 is a converter board for connecting the signals of the MCU unit R0E521300MCU00 for R8C/Tiny Series to a foot pattern for 52-pin 0.65mm pitch LQFP of R8C/35A group.

2. Package Components (See Figure 1)

Check to see if the R0E53035ACFJ50 package has all the following contents before using this product.

- (1) R0E53035ACFJ50 converter board 1 pc.
- (2) YQPACK052SB (made by Tokyo Eletech Corporation)..... 1 pc.
- (3) NQPACK052SB (made by Tokyo Eletech Corporation) 1 pc.
- (4) YQ-GUIDE (made by Tokyo Eletech Corporation) 4 pcs.
- (5) R0E53035ACFJ50 User's Manual (this manual)

3. Specifications

Table 1 Specifications

Applicable package	PLQP0052JA-A: formerly 52P6A-A (52-pin 0.65mm pitch LQFP)
Insertion/removal iterations of connector	50 times guaranteed

4. Usage (See Figure 2)

The R0E53035ACFJ50 can be used for debugging and on-board evaluation in common by mounting the NQPACK052SB on the user system.

- (1) For debugging
Mount the NQPACK052SB on the foot pattern of the user system and attach the YQPACK052SB on it. In addition, connect the R0E53035ACFJ50 to the YQPACK052SB, and then connect the flexible cable R0E001000FLX10 of the emulator to the upper connector of the R0E53035ACFJ50.
- (2) For on-board evaluation
Mount an MCU with on-chip flash memory or one-time PROM and the HQPACK052SB (not included) in order on the NQPACK052SB on the user system.

Before using the R0E53035ACFJ50, be sure to read "7. Precautions" on page 4.

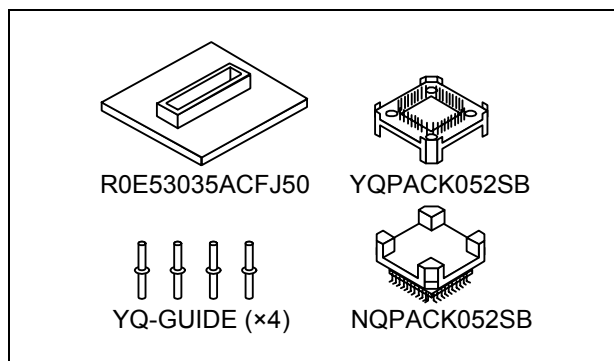


Figure 1 Package components of the R0E53035ACFJ50

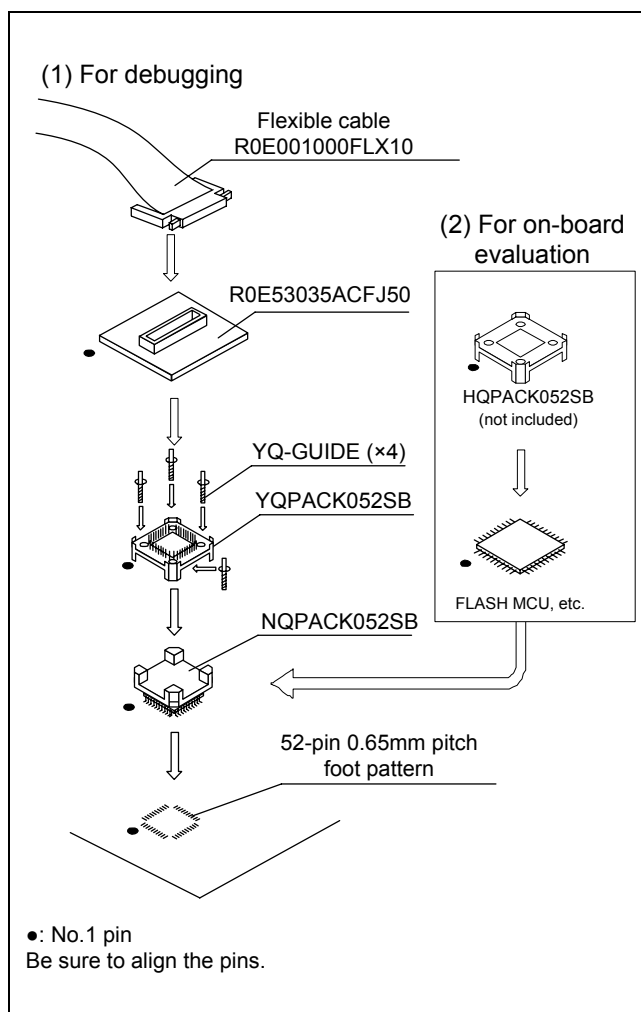


Figure 2 Usage of the R0E53035ACFJ50

5. Connection Procedure (See Figure 3)

The procedure for connecting the R0E53035ACFJ50 is shown below.

- (1) Mount the NQPACK052SB on the user system.
- (2) Attach the YQPACK052SB on the NQPACK052SB.
- (3) Secure the four corners of the YQPACK052SB with the YQ-GUIDEs.

- Do not use the screws included with the YQPACK052SB for fixing the YQPACK052SB.
- Do NOT use the screwdriver included with the NQPACK052SB for fixing the YQ-GUIDEs. That is used only for the HQPACK052SB.

- (4) Mount the R0E53035ACFJ50 on the YQPACK052SB.
- (5) Connect the flexible cable R0E001000FLX10 of the emulator to the R0E53035ACFJ50.

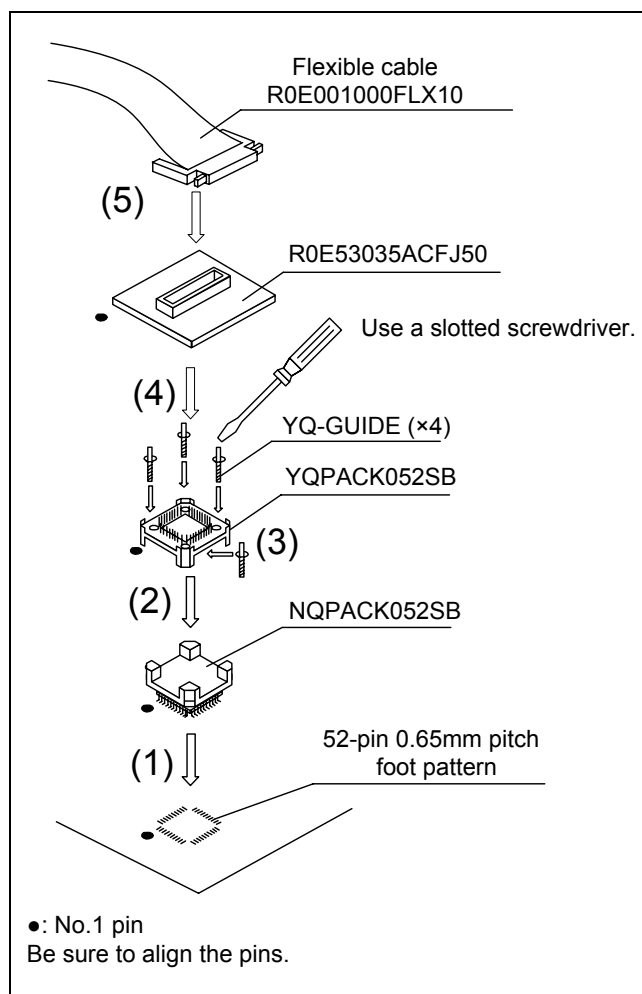


Figure 3 Connection procedure of the R0E53035ACFJ50

6. External Dimensions and a Sample Foot Pattern

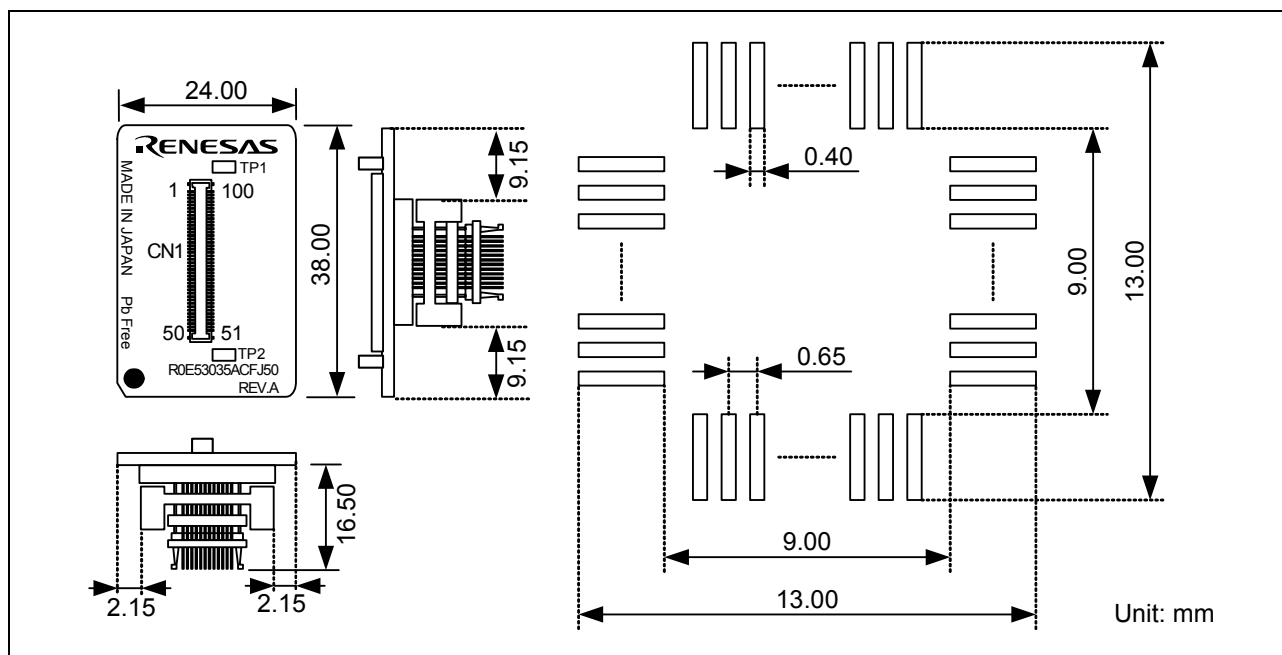


Figure 4 External dimensions and a sample foot pattern of the R0E53035ACFJ50

7. Precautions

CAUTION

Cautions to Be Taken for This Product:



- When connecting the YQPACK052SB, be sure to use the included YQ-GUIDEs.
- Do NOT use the screws included with the YQPACK052SB for connecting the YQPACK052SB.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- For purchasing the NQPACK052SB, YQPACK052SB, HQPACK052SB, contact the following:
Tokyo Eletech Corporation http://www.tetc.co.jp/e_index.htm
- For inquiries about the product or the contents of this manual, contact your local distributor.
Renesas Tools Homepage <http://www.renesas.com/tools>

8. Correspondence of Connectors CN1

Table 2 Correspondence of the connectors

CN1 Pin No.	IC1	CN1 Pin No.	IC1
1	-	100	-
2	-	99	-
3	-	98	-
4	-	97	-
5	33	96	32
6	34	95	31
7	35	94	30
8	36	93	29
9	37	92	28
10	38	91	27
11	-	90	-
12	-	89	-
13	-	88	-
14	-	87	-
15	-	86	-
16	-	85	-
17	-	84	-
18	-	83	-
19	-	82	-
20	39	81	26
21	40	80	25
22	41	79	-
23	42	78	-
24	43	77	-
25	44	76	-
26	-	75	-
27	45	74	24
28	46	73	23
29	47	72	22
30	48	71	21
31	49	70	20
32	50	69	19
33	51	68	18
34	-	67	17
35	-	66	16
36	52	65	15
37	-	64	-
38	1	63	14
39	-	62	13
40	2	61	-
41	3	60	-
42	4	59	-
43	5	58	-
44	6	57	-
45	7	56	12
46	8	55	11
47	9	54	10
48	-	53	-
49	-	52	-
50	-	51	-

(-: No connection or signals in the emulator)