

To our customers,

Old Company Name in Catalogs and Other Documents

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

April 1st, 2010
Renesas Electronics Corporation

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M3T-SSOP42B-450

Dummy IC for 42-pin 0.8-mm-pitch SSOP

User's Manual

Keep safety first in your circuit designs!

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



CAUTION

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

1. Outline

This accessory tool connects the probe of an emulation pod and the target. Its dimensions are the same as those of the MCU for the 42-pin 0.8-mm-pitch SSOP (17.5 x 8.4 mm) IC package (42P2R-A).

2. Package Components

- (1) M3T-SSOP42B-450 main unit x1
- (2) Socket x1
- (3) Socket frame (for 42P2R-A) x2
- (4) M3T-SSOP42B-450 User's Manual (This manual)

3. Applicable Socket

As this product is evaluated in combination with IC sockets made by Matsushita Electric Works, Ltd., be sure to use the sockets specified below.

Socket + socket frames (5 pieces)

AXS69204201 made by Matsushita Electric Works, Ltd.

Socket frame for repair (one piece)

AXS69304201 made by Matsushita Electric Works, Ltd.

4. Specifications

Table 1 Specifications

Applicable package	42P2R-A (42-pin 0.8-mm-pitch SSOP)
Insertion/removal iteration of connector	50 times guaranteed

5. Usage

The M3T-SSOP42B-450 can be used for debugging and board mounted evaluation in common by mounting the socket directly on the target board.

(1) For debugging

Mount the socket directly to the foot pattern on the target board. On top of it, mount the M3T-SSOP42B-450 and socket frame in that order. Then connect the pod probe of the emulation pod, etc. to the connector provided at the top of the M3T-SSOP42B-450.

(2) For board-mounted evaluation

Mount an MCU with on-chip flash memory or one-time PROM and socket frame in that order to the socket on the target system.

Before using the M3T-SSOP42B-450, be sure to read "8. Precautions" on page 4.

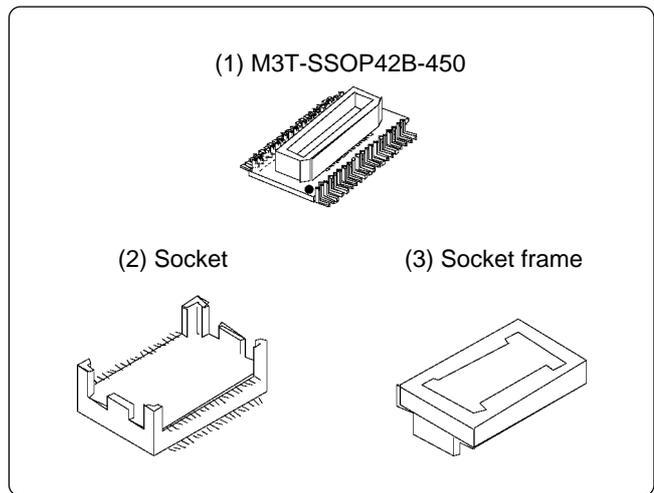


Figure 1 Package components of the M3T-SSOP42B-450

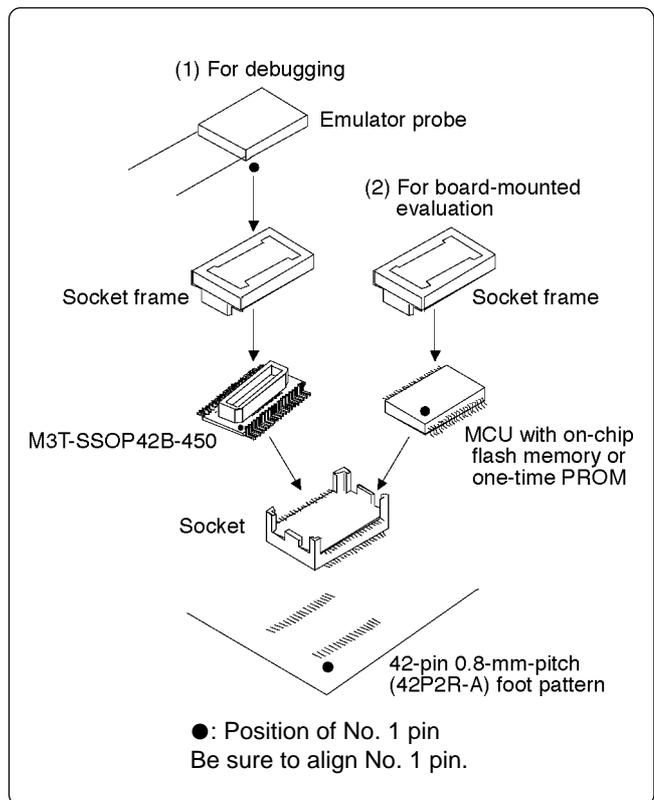


Figure 2 Usage of the M3T-SSOP42B-450

6. External Dimensions of the M3T-SSOP42B-450

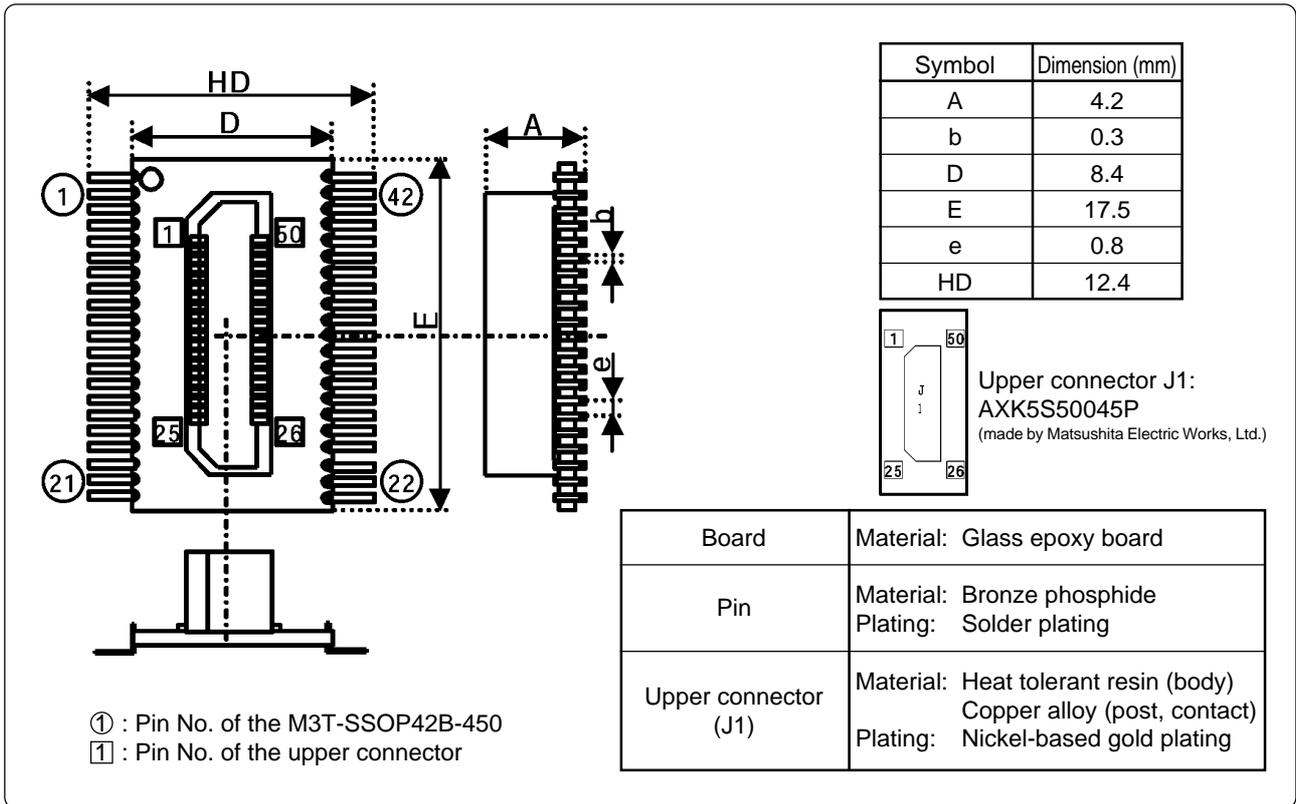


Figure 3 External dimensions of the M3T-SSOP42B-450

7. Target Foot Pattern

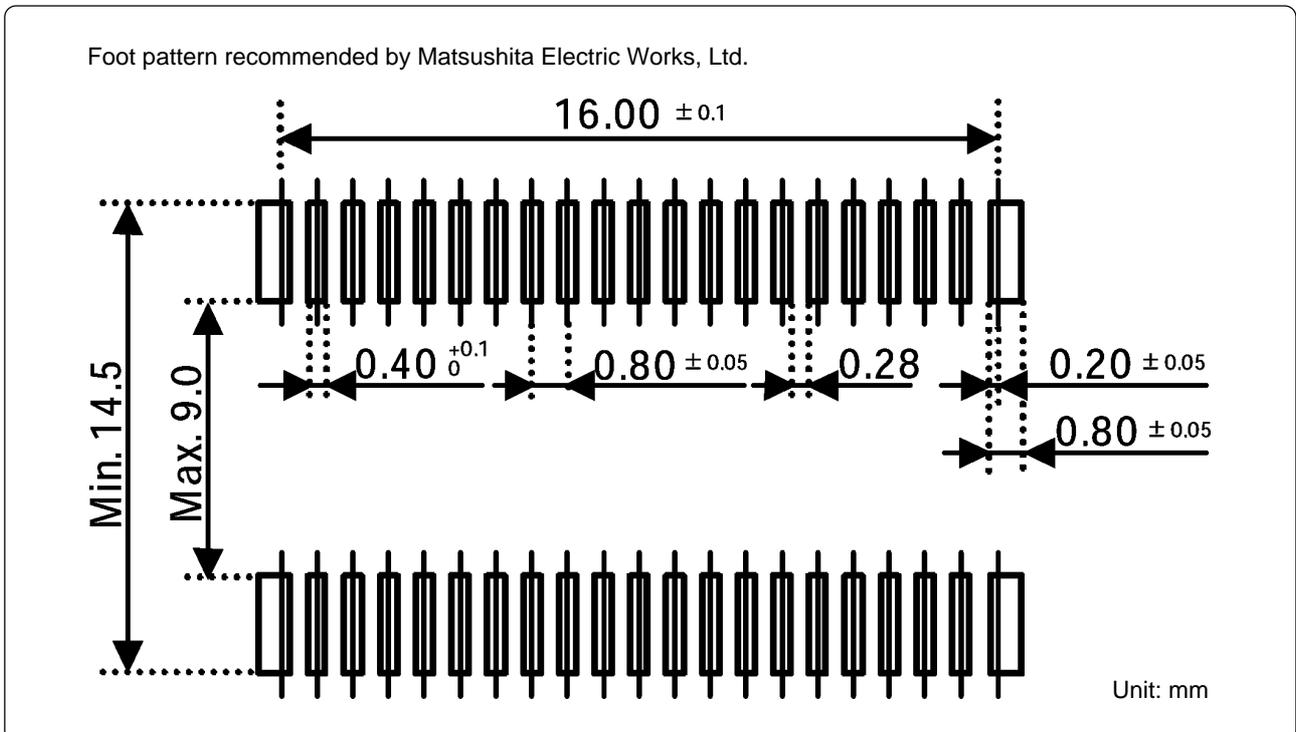


Figure 4 Dimensions of the target foot pattern

8. Precautions

CAUTION

Cautions to Be Taken for This Product:



- Do not solder the M3T-SSOP42B-450 directly on the target. Use the included socket.
- When attaching the M3T-SSOP42B-450, be sure to confirm the pin positions.
- When soldering the socket's body and mounting the M3T-SSOP42B-450, refer to the supplementary document "Mounting the Socket Included with the M3T-SSOP42B-450" and "Notes on Handling M3T-SSOP42B-450".
- Do not apply an unnecessary stress to the M3T-SSOP42B-450.
- Do not touch the pins of the M3T-SSOP42B-450.
- Store this product in the dedicated case.

IMPORTANT

Notes on This Product:

- We cannot accept any request for repair.
- To remove the socket frame, use the dedicated tool AXY89404201* (made by Matsushita Electric Works, Ltd.).
- * To purchase this product and socket frame for repair, contact Matsushita Electric Works, Ltd.
- For inquiries about the product or the contents of this manual, contact your local distributor.

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

9. Pin Assignments of Connector J1

Table 2 Pin assignments of the M3T-SSOP42B-450 and connector

Connector pin No.	M3T-SSOP42B-450 pin No.	Connector pin No.	M3T-SSOP42B-450 pin No.
J1-1	NC	J1-26	NC
J1-2	NC	J1-27	NC
J1-3	1	J1-28	22
J1-4	2	J1-29	23
J1-5	3	J1-30	24
J1-6	4	J1-31	25
J1-7	5	J1-32	26
J1-8	6	J1-33	27
J1-9	7	J1-34	28
J1-10	8	J1-35	29
J1-11	9	J1-36	30
J1-12	10	J1-37	31
J1-13	11	J1-38	32
J1-14	12	J1-39	33
J1-15	13	J1-40	34
J1-16	14	J1-41	35
J1-17	15	J1-42	36
J1-18	16	J1-43	37
J1-19	17	J1-44	38
J1-20	18	J1-45	39
J1-21	19	J1-46	40
J1-22	20	J1-47	41
J1-23	21	J1-48	42
J1-24	NC	J1-49	NC
J1-25	NC	J1-50	NC

(NC: No connection)