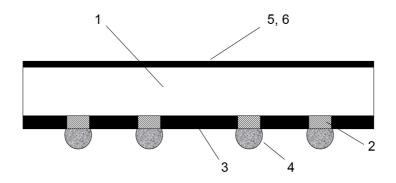


1. Package Information

Package Name		UCSP75M3
Outline Dimension Drowing No.		EX908-5017
Package Weight	[mg]	14
MSL Level ^(Note 1)		MSL1

Note 1 : The MSL Level are determined based on the JEDEC J-STD-020D.

2. Pacakage Structure

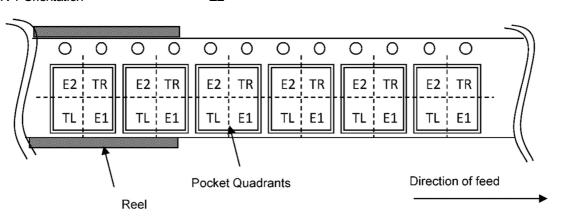


No.	Item	Materials
1	Die	Silicon
2	Cu Post	Cu
3	Mold Compound	Epoxy Resin
4	Ext. terminal	Sn-3Ag-0.5Cu Solder
5	Mold Compound	Polyamide-imide Resin
6	Marking	Laser Marking

3. Packing Specification

3.1 Packing form, Quantity, PIN1 Orientation and Weight

Packing Form		Tape&Reel
Packing Quantity	[pcs/Reel]	2,500
PIN 1 Orientation		E2



Quadrant Assignments for PIN 1 Orientation in Tape Fig.1

TL : PIN1 is placed to the lower left.

E2 : PIN1 is placed to the top left corner. TR : PIN1 is placed to the top right corner. E1 : PIN1 is placed to the lower right.

3.2 Use material

Item	Material
Embossed carrier tape	PS (antistatic)
Cover tape	PET+PE (antistatic)
Reel	PS (antistatic)
Unit box	Cardboard
Shipping box	Cardboard

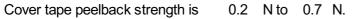
3.3 Leader specification

No component pockets are 50 pockets (400 mm) or more.

3.4 Trailer specification

No component pockets are 20 pockets (160 mm) or more. Tape is free from reel.

3.5 Peelback strength



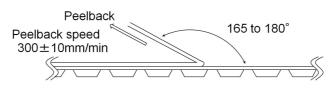


Fig.2 Test method

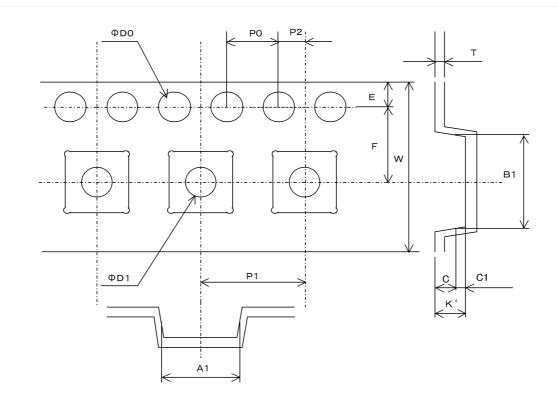
3.6 Missing ICs

(1) No consecutive dropouts.

(2) A maximun 0.1 % of specified number of products in each packing may be missing.

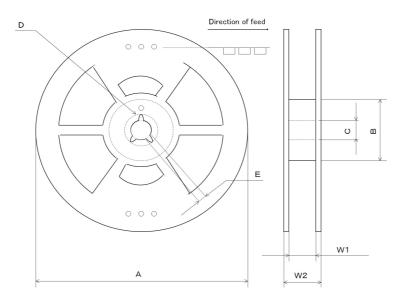
3.7 Tape and Reel Specification

3.7.1 Tape Dimension



Symbol	Dimension	Tolerance
A1	3.40	±0.1
B1	3.40	±0.1
С	(0.85)	
C1	(0.30)	
D0	ϕ 1.5	+0.1 -0
D1	ϕ 1.5	+0.1 -0
E	1.75	±0.1
F	5.5	±0.1
K'	1.15	±0.1
P0	4.0	±0.1
P1	8.0	±0.1
P2	2.0	±0.1
т	0.3	±0.05
W	12.0	±0.3
		(mm

3.7.2 Reel Dimension

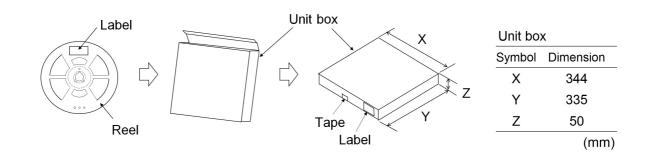


Symbol	Dimension	Tolerance
А	φ 330	+0 -1.5
В	50	MIN
С	φ13.0	±0.2
D	φ20.2	MIN
Е	1.5	MIN
W1	13.4	±1.0
W2	17.4	±1.0
		(mn

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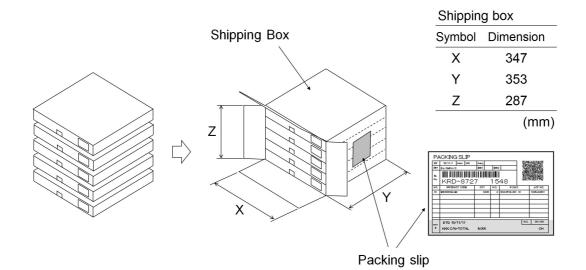
3.8 Packing Method

1 reels or less per unit box.



3.9 Packing Style

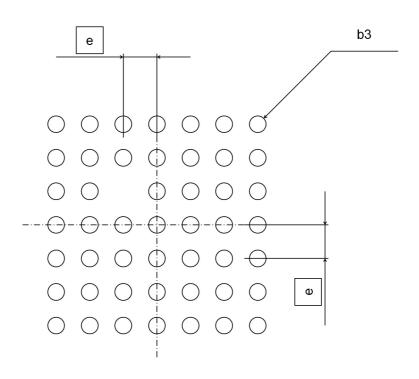
5 unit boxes or less per shipping box.



3.10 Label Specification



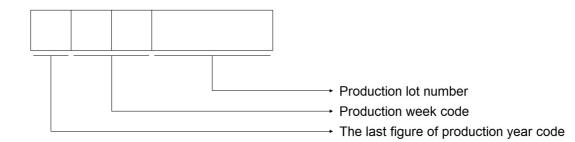
4. Footprint dimensions



Symbol	Reference Value	
e	0.40	
b3	0.20	
		(mm)

In actual design, please optimize in accordance with the situation of your board design and soldering condition.

5. Marking Specification



6. Storage conditions

6.1. Storage environment

Recommended st	orage conditio	ons	
	Min.	Max.	Unit
Temperature	5	30	°C
Humidity	40	70	% RH

6.2. Storage period

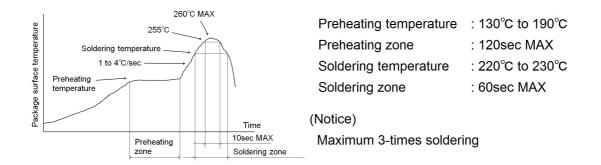
	Min.	Max.	Unit
Storage period	-	1	year

6.3. Specified storage period until soldering

This package dose not require additional drying treatment as long as the moisture condition at the mounting process is within our recommended mounting condition.

7. Soldering conditions

7.1. Recommended temperature profile for reflow



7.2. About mounting with Sn-Pb solder paste

Mounting Sn-Pb solder paste is not reccommended because it has a possibility of reducing reliability to connect with Sn-3.0Ag-0.5Cu solder balls.

- 7.3. The wave soldering mehod is not supported.
- 7.4. Partial heat supply method (by soldering iron) is not supported.

8. Precautions

8.1. Caution for handling

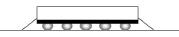
Silicon substrate surface is exposing to the side of this package. Therefore, please pay careful attention to chip and crack, and handle without touching the side of package.

8.2. Regarding the underfill material

In some case, the underfill material is applied in order to reinforce the solder junction of package. Since there is a case that solder joint reliability may deteriorate according to the resin material or coating condition, please evaluate it sufficiently for its application.

In term of the coating condition, it is preferable that there is an enough material beyond the each four sides of package.

<Preferable example>



There is a Underfill resin evenly at each four sides.

<Non Preferable example>

There is little Underfill resin at one or two sides.

8.3. Mounting on Flexible film

Since film bending stress may occur open failture of solder junction, usage of support board or under fill is recommended.



8.4. Regarding the jisso form

When it is used under the special conditions such as embedded PCB, please evaluate it sufficiently for its application.

8.5. Regarding the solder terminal

Due to the solder terminal of this package is formed by screen printing method, there may be void observed inside of terminal. Although the void after mounting may not affect solder joint reliability or strength, the size of the void may be increased depending on board and mounting condition, thus ROHM hereby states that the void after mounting will not be guaranteed.

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5)	The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
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9)	Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
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