

Package: HTSSOP-C

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1. Structure and materials

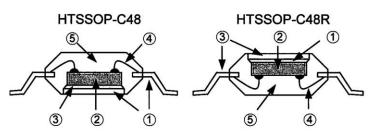


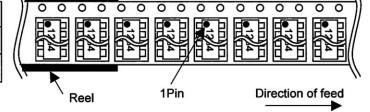
Fig. 1 Structure

No. Item Materials Cu-Alloy (External lead : Pb free solder plating) 1 **Lead Frame** 2 Die Silicon (3) Die Attach Solder 4 Wire Au (5) **Epoxy Resin** Molding

2. Tape and Reel information

2. 1. Packing specification

Таре	Embossed carrier tape	
Quantity	See the table on page 4/4	
Direction of feed	E2 (See Fig. 2)	



2. 2. Tape and Reel specification

2. 2. 1. Tape and reel dimensions (See the table on page 4/4)

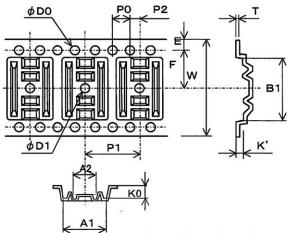


Fig. 3 Tape dimensions

Fig. 2 Typical Tape and Reel configuration

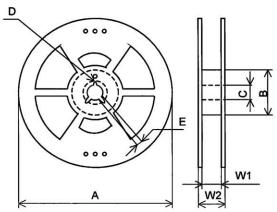


Fig. 4 Reel dimensions

2. 3. Leader and Trailer

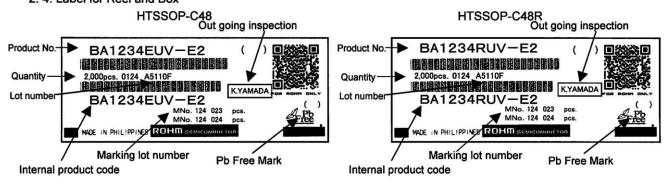
2. 3. 1. Leader

No component pockets are 40 pockets or more.

2 3 2 Trailer

No component pockets are 10 pockets or more. Tape is free from reel.

2. 4. Label for Reel and Box



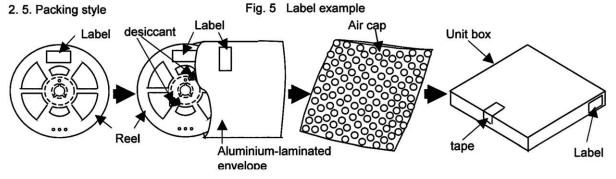
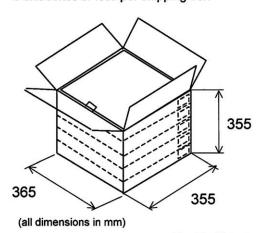


Fig. 6 Packing style

2. 6. Shipping style5 unit boxes or less per shipping box



2. 7. Packing materials

Item	Material		
Embossed carrier tape	PS		
Cover tape	PET + PE		
Reel	PS		
Desiccant	Silicagel		
Envelope	Aluminume-laminated		
Air cap	Polyethylene		
Unit box	Cardboard		
Shipping box	Cardboard		

^{*} Please obey the indication of top side in a shipping box.

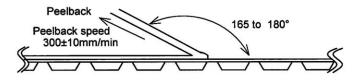
Fig. 7 Shipping box dimensions and Shipping style

2. 8. Others

2. 8. 1. Peelback strength

Cover tape peelback strength is 0.2 to 0.7N.

Fig. 8 Test method



2. 8. 2. Missing Ics

- (1) No consecutive dropouts.
- (2) A maximun 0.1% of specified number of products in each packing may be missing.

3. Storage conditions

3. 1. Storage environment

Recommended storage conditions are as follows:

-Temperature : 5 to 30°C -Humidity : 40 to 70% RH

3. 2. Storage period

-Specified storage period: 1 year

3. 3. Specified storage period until soldering

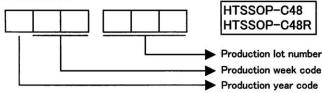
After dry pack is opened, assemble package within 24hours.

If the storage period has expired, the products must be baked 125°C for 24hours.

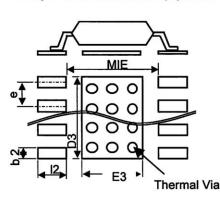
Maximum 2times baking for keeping solderbility.

Execute baking by 60°C/48hours while put in the embossed tape.

4. Marking lot number



5. Footprint dimensions (Optimize footprint dimensions to the board design and soldering condition)

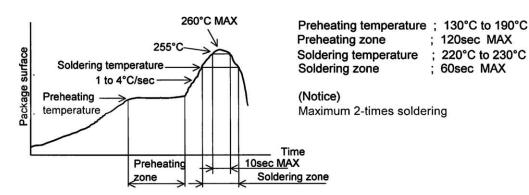


			(all dimens	ions in mm)
Dookogo	Land pitch	Land space	Land length	Land width
Package e	MIE	≧12	b 2	
HTSSOP-C48	0.50	6.30	1.20	0.25
HTSSOP-C48R	0.50	6.30	1.20	0.25

Package	Radiation land length	Radiation land width	Ther	mal via
	D3	E3	Pitch	Diameter
HTSSOP-C48	12.50	5.10	1.20	φ0.30
HTSSOP-C48R	-			

6. Soldering conditions

6. 1. Recommended temperature profile for reflow



6. 2. Recommended condition for wave soldering

Process	Cond	itions
1100033	Temperature	Time
Preheating	120°C to 150°C	60sec MAX
Soldering	260°C ± 3°C	12sec MAX

(Notice) Soldering time is provided for total soldering time in case of dual wave soldering.

6. 2. 1. Notes for wave soldering

- (1) The heatsink may not be connected using wave soldering methods.
- (2) Do not use other soldering methods with wave soldering.
- (3) Recommend to clean the board to eliminate flux, solder waste, and other impurities for reliability, after soldering.
- (4) Optimize soldering condition to prevent solder bridging.

6. 3. Recommended condition for solder iron

Recommended condition for solder iron

-Solder iron temperature : 380°C or less

-Mounting time

: 4sec or less

(Notice) The heatsink may not be connected using solder iron.

< Tape dimensions >

Package	Quantity	Tape dimensions (all dimensions in mm)			1)			
Fackage	(pcs)	A1	A2	B1	D0	D1	E	F
HTSSOP-C48	2000	8.8	5.89	13.15	φ1.5	φ2.0	1.8	11.5
HTSSOP-C48R	2000	8.8	5.89	13.15	φ1.5	φ2.0	1.8	11.5
Toler	ance	±0.1	±0.05	±0.1	+0.1 -0	+0.1 -0	±0.1	±0.1

Package	T	ape din	nensions	(all di	mension	s in mm	1)
Fackage	K'	K0	P1	P2	Т	W	P0
HTSSOP-C48	0.85	1.5	12.0	2.0	0.3	24.0	4.0
HTSSOP-C48R	0.85	1.5	12.0	2.0	0.3	24.0	4.0
Tolerance	±0.05	±0.1	±0.1	±0.1	±0.05	±0.3	±0.1

< Reel dimensions >

Package	Reel dimensions (all dimensions in mm)						
Fackage	Α	В	С	D	E	W1	W2
HTSSOP-C48	φ330	φ100	φ13.0	20.2	1.5	24.4	32.4
HTSSOP-C48R	φ330	φ100	φ13.0	20.2	1.5	24.4	32.4
Tolerance	-	1	±0.2	MIN	MIN	±0.1	MAX

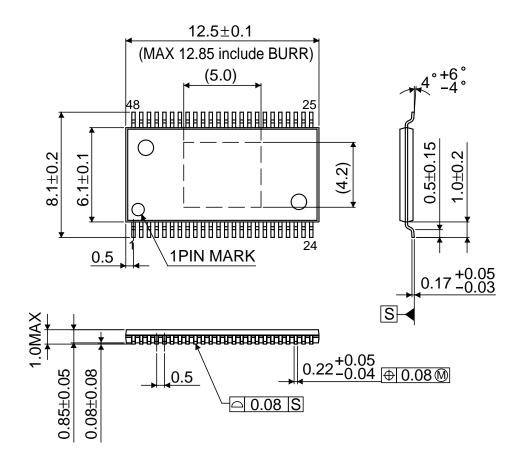
< Dehydrated weight>

Packago	Dehydrated weight
Package	(dimensions in g)
HTSSOP-C48	0.179
HTSSOP-C48R	0.179



Package Dimensions

HTSSOP-C48

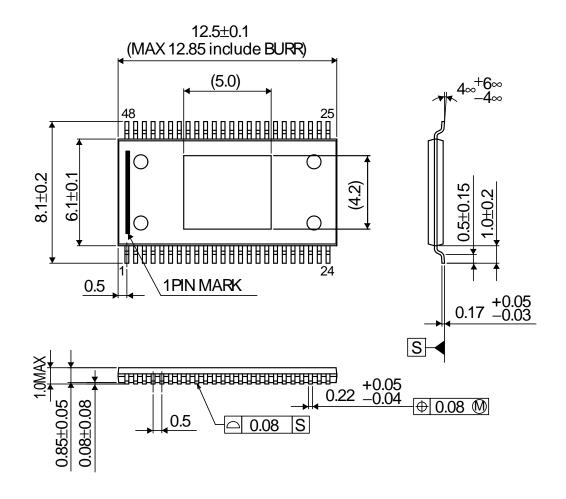


(Unit: mm)



Package Dimensions

HTSSOP-C48R



(Unit: mm)

Notes

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