iC-LTA optoBGA LSH2COPTO ENCODER PACKAGE SPECIFICATION



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ORDERING INFORMATION

Type **Package Options Order Designation**

iC-LTA oBGA LSH2C reticle iC-LTA oBGA LSH2C -xxR

> glass lid iC-LTA oBGA LSH2C



6.2 mm x 5.2 mm RoHS compliant

PIN CONFIGURATION						PIN FU	PIN FUNCTIONS				
(top view)						No.	Name	Function			
A B C D			3 (14) (11)	4 0 0 0 0		A2 A3 A4 B1 B2 B3 B4 C1 C2 C3 C4 D1 D2 D3 D4		For pinout information please refer to the relevant IC data sheets.			

ABSOLUTE MAXIMUM RATINGS

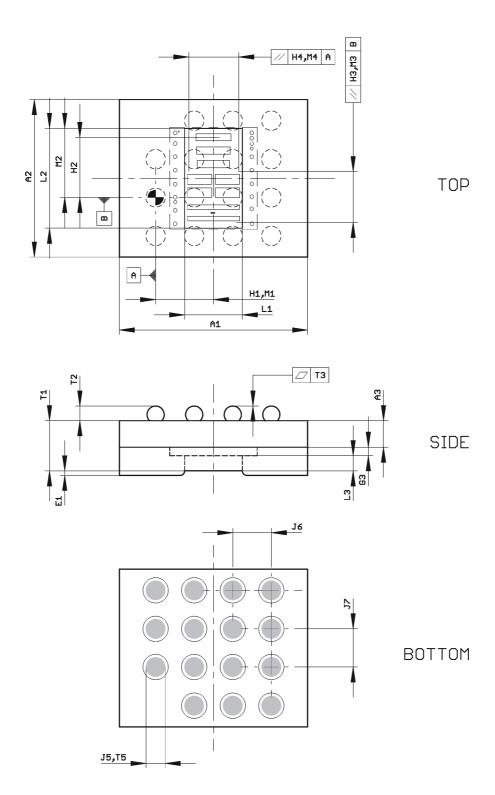
Item	Symbol	Parameter	Conditions	Fig.			Unit	
					Min.	Тур.	Max.	
TG1	Та	Operating Ambient Temperature Range			- 40		110	°C
TG2	Ts	Storage Temperature Range			- 40		110	°C
TG3	Tpk	Reflow Soldering Peak Temperature	tpk < 20 s, convection reflow tpk < 20 s, vapour phase TOL (time on label) 8 h; please refer to customer information file No. 7 for details				245 230	ာ့ ပို

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PHYSICAL DIMENSIONS



DRA_LTA_Y_LSH2C_PACK_1

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DIMENSION TABLE

Item	Parameter	Conditions					Unit
			Min.	Тур.	Max.	Tolerance	
	Substrate						
A1	Outline X			6.2		±0.1	mm
A2	Outline Y			5.2		±0.1	mm
АЗ	Substrate Thickness	bottom package to bottom die		0.87			mm
	Chip Placement						
G3	Chip Thickness			0.40			mm
H1	Sensor Array Position vs. Bottom Metal X	center of array		1.905		±0.15	mm
H2	Sensor Array Position vs. Bottom Metal Y	center of outside track "RA"		1.99		±0.15	mm
H3 H4	Parallelism Sensor Array vs. Bottom Metal				0.1		mm
	Bottom Metal Pattern						
J5	Lead Diameter			0.635		±0.03	mm
J6	Lead Pitch X (or Lead-Lead Distance X)			1.27			mm
J7	Lead Pitch Y (or Lead-Lead Distance Y)			1.27			mm
	Glass/Reticle Cover						
L1	Glass / Reticle Size X			1.9			mm
L2	Glass / Reticle Size Y	glass reticle		3.24 3.30			mm mm
L3	Glass / Reticle Thickness	glass reticle		0.40 0.50			mm mm
M1	Glass / Reticle Position vs. Bottom Metal X			1.905			mm
M2	Glass / Reticle Position vs. Bottom Metal Y			2.285			mm
M3 M4	Parallelism Reticle Pattern vs. Bottom Metal				0.15		mm
	Encapsulation						
E1	Coating Excess	surface glass to surface coating			0.05		mm
	Thickness Specifications						
T1	Overall Thickness	bottom substrate to top of glass / reticle	1.50	1.70	1.95		mm
T2	Solder Ball Height	drawing not to scale	0.40		0.54		mm
Т3	Solder Ball Coplanarity					±0.05	mm
T5	Solder Ball Diameter			0.635			mm

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REVISION HISTORY

Rev	Notes	Pages affected
A1	Initial version	
B1	Dimension Table: items T1, T2 changed; Disclaimer update	3, 4

GENERAL HANDLING INSTRUCTIONS

After opening the dry pack, devices must be mounted within 8 hours (in factory conditions of maximum 30 $^{\circ}$ C / 60 $^{\circ}$ RH) or must be stored at < 10 $^{\circ}$ RH. Devices require baking before mounting if the Humidity Indicator Card shows > 10 $^{\circ}$ W when read at 23 $^{\circ}$ C $^{\circ}$ C or if the conditions mentioned above are not met. Devices may be baked for 72 hours at 100 $^{\circ}$ C using high-temperature device containers (trays).

Samples

Samples may not be subject for dry pack delivery, and, in that case, are not intended for reflow soldering.

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