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ORDERING INFORMATION

Type iC-ODL	Packag optoBG	e A™ OE	0L2C	Options none	Order Designation	on DL2C	9.5 mm x 4.7 mm
PIN CONFIGURATION						TIONS	
(top view)	7 〇 〇 1	8 〇 〇 2	6 〇 〇 3	5 〇 〇 4	No. Name 1 VCC 2 IAC1 3 IAC2 4 GND 5 n.c. 6 n.c. 7 n.c. 8 n.c.	Function +(3.9) 4.5 to +13 Current Output 1 Current Output 2 Ground	8.2 V Supply Voltage

ABSOLUTE MAXIMUM RATINGS

ltem	Symbol	Parameter	Conditions	Fig.				Unit
No.					Min.	Тур.	Max.	
TG1	Та	Operating Ambient Temperature Range			-20		90	°C
TG2	Ts	Storage Temperature Range			-30		110	°C
TG3	Трк	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 #7 for details				245 230	ပံ ပံ



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PHYSICAL DIMENSIONS ЧZ \bigcirc \bigcirc \bigcirc \bigcirc **B**2 ∠ H5 ♣ Ϊ Þ \bigcirc TOP D2 L2 B1 H1 Å2 D1 L1 A 1



SIDE



BOTTOM

DRA_ODL2C_PACK_1

iC-ODL OBGA ODL2C PACKAGE SPECIFICATION



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DIMENSION TABLE

ltem	Parameter	Comments	1	Unit			
			Min.	Тур.	Max.	Tolerance	
	Substrate						
A1	Outline X			9.5		±0.1	mm
A2	Outline Y			4.7		±0.1	mm
A3	Substrate Thickness	bottom package to bottom die		0.87			mm
	Reference						
B1	Outline vs. Reference X	bottom lead #1 center is reference		0.94		±0.15	mm
B2	Outline vs. Reference Y	bottom lead #1 center is reference		1.08		±0.15	mm
	Encapsulation						
C3	Mold Thickness	note ¹⁾	0.5		0.8		mm
	Optical Sensor						
D1	Sensor Size X			8.42			mm
D2	Sensor Size Y			0.87			mm
	Chip Placement						
G3	Chip Thickness			0.3		±0.025	mm
H1	Chip Position vs. Reference X	reference vs. center of sensor		3.81		±0.15	mm
H2	Chip Position vs. Reference Y	reference vs. center of sensor		1.27		±0.15	mm
H5	Chip Tilt Angle vs. Paddle					±1.6	DEG
	Bottom Metal Pattern						
J5	Lead Size			0.635		±0.03	mm
J6	Lead Pitch X			2.54			mm
	(or Lead-Lead Distance X)						
J7	Lead Pitch Y (or Lead-Lead Distance Y)			2.54			mm
J8	Solder Stop Off			0.835		±0.1	mm
	Glass Cover						
L1	Glass Size X			8.65		±0.05	mm
L2	Glass Size Y			1.1		±0.05	mm
L3	Glass Thickness			0.4		±0.03	mm
	Thickness Specifications						
T1	Overall Thickness	note ¹⁾ , bottom substrate to top of glass	1.40		1.75		mm
T2	Solder Ball Height	drawing not to scale	0.36		0.5		mm
Т3	Solder Ball Coplanarity					±0.1	mm

Notes: 1) adjusted to glass top surface



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REVISION HISTORY

Rev	Notes	Pages affected
A1	Initial version	all
A2	RoHS compliance	1, 4
B1	Absolute Maximum Ratings: TG3 Dimension Table: A3, T1	1 3
C1	Convection reflow soldering peak temperature reduced to 245 °C	1, 4

GENERAL HANDLING INSTRUCTIONS

After opening the dry pack, devices must be mounted within 8 hours (in factory conditions of maximum $30 \degree C/60\%$ RH) or must be stored at < 10% RH. Devices require baking before mounting if the Humidity Indicator Card shows > 10% when read at $23 \degree C \pm 5 \degree C$ or if the conditions mentioned above are not met. Devices may be baked for 72 hours at $100 \degree C$ using high-temperature device containers (trays).

Samples

Samples are not subject to dry pack delivery and are not intended for reflow soldering. Remove any protective film – if present – before tempering or soldering. Use tweezers, pull upwards slowly, any horizontal pulling must be avoided. Do not touch the iC surface after removing the film. Never press on the iC coating.

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