

with body thickness of only

width and length.

DESCRIPTION Lingsen COB is a BT substrate based clear molding compound encapsulated package

1.1/1.0/0.95/0.7mm. It is available in pin count from 4L to 30L or above in different body



COB

Chip on Board Package

SPECIFICATIONS					
Die Thickness:	250um(10mils) maximum				
Substrate	BT				
Die Attach	2100A/84-1 LMISR4				
Gold Wire	99.99% Au				
Mold Compound	NT-309HQ/NT-310Q/NT-330HQ (Green)				
Plating	Ni Au plated for soldering pad				
Marking	White Ink				
Packing	Antistatic Tube / Tray				

It is widely used in the packaging of photo-detector ICs.

The package meets JEDEC Moisture Sensitivity Level 4 standard that ensures reliability in its functions.

APPLICATIONS	RELIABILITY				
	MSL Level	JEDEC Level 4 @ 220°C			
Photo-detector	Temperature Cycling	500 cycles (-40°C /85°C)			
Amplifier for laser light	Temperature & Humidity Test	1,000 hrs (60°C/90%RH)			
Pick up head for	High Temperature Storage	100 hrs (85°C)			
DVDRW/DVDRAM/CDRW systems					

FEATURES

- Full in-house package and substrate design capability
- Meet industrial particle/foreign material level requirements
- Pin count range from 4L to 30L or above

PACKAGE AVAILABILITY

Package	Body Size (mm)	Pad Size (mm)	Die Size (mm)	Thermal Performance $ \theta$ ja (°C/W)
COB 8L (3x3.5mm)	3x3.5	1.47x1.90	1.17x1.60	55.76
COB 16L (5x4mm)	5x4	1.95x2.36	1.65x2.06	36.72

Note: Simulated with JEDEC Standard 4-layer test board under still air condition, ambient temperature 45°C

ELECTRICAL PERFORMANCE						
Package	Body Size	Pad Size	Frequency	Self Inductance	Self Capacitance	Resistance
	(mm)	(mm)	(MHz)	(nH)	(pF)	(mohm)

COB 8L(3x3.5mm)	3x3.5	1.47x1.90	100	0.29-0.51	0.23-0.48	17.9-22.4
COB 16L(5x4mm)	5x4	1.95x2.36	100	0.50-1.40	0.30-0.61	22.8-39.5

Note: Results are simulated. Data is available through 2.5GHz.

CROSS-SECTION

