



# **CSP**

Chip Scale Package

### DESCRIPTION

Lingsen CSP package is a ceramic substrate based plastic package with body thickness of only 0.65mm. It is available in pin count from 4 to higher pin counts based on the size of designed substrate. It is ideal to be used in the packaging of RF, wireless, portable as well as high-end networking and computing application products.

The package meets JEDEC Moisture Sensitivity

Level 1 standard that ensures reliability in its

functions.

### **SPECIFICATIONS**

₱ Die Thickness 100um (4mils) maximum

Substrute Ceramic Substrute

Gold Wire
 99.99% Au

■ Mold Compound Matsushita CV 8710J

Plating Au Pluted for Soldering pad

Marking
Laser Mark

Packing Bulk

### APPLICATIONS

- RF/ Wireless/ Portable Products
- Networking and Computing
- Application Products
- SDR / DDR
- Low Power SDRAMs

### RELIABILITY

MSL Level: MSL 1 @ 240°C

### **FEATURES**

- Low profile, 0.65mm height
- Package body size is flexible by substrate design
- JEDEC standard compliant
- JEDEC MSL level 1 qualified

THERMAL PERFORMANCE										
Package	Body Size (mm)	Pad Size (mm)	Die Size (mm)	Thermal Performance $\theta$ ja (°C/W)						
1412	1.42x1.18	0.65x0.6	0.442x0.373	357.2						

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

ELECTRICAL PERFORMANCE										
Package	Body Size (mm)	Pad Size (mm)	Frequency (MHz)	Self Inductance (nH)	Self Capacitance (pF)	Resistance (mohm)				
1412	1.42x1.18	0.65x0.6	100	0.17~0.58	0.11~0.20	13.07~51.75				

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

## CROSS-SECTION

