



LFBGA

Low Profile , Fine Pitch Ball Grid Array Package

SPECIFICATIONS				
Die Thickness	250um(10mils) maximum			
Substrute	Ablebond 8510AA / 2100A			
Gold Wire	25um(1.0mils) diameter 99.99% Au			
Mold Compound	Shin-Etsu KMC-211AA Series (Non-Green)			
	Sumitomo EME-G770 Series (Green)			
Solder Ball	Sn63/Pb37, Sn/Ag/Cu			
Marking	Laser Mark			
Packing	Тгау			

and overmolded on BT substrate chip scale package. It offers small scale, light weight and cost saving solutions for low ball counts less than 300. It is suitable for portable and handheld products and can be one of your best choice. MiniBGA with a matrix format substrate and a common mold chase accommodates different package sizes to offer manufacturing flexibility and thus reduce time to market effectively.

DESCRIPTION

Lingsen Mini-BGA is a cavity up, wire bonded

APPLICATIONS	RELIABILITY		
	MSL Level	JEDEC Level 3 @ 245°C	
 Memory, Analog, Flash, ASICs 	Temperature Cycling	500 cycles (-65/150°C)	
• RF devices and simple PLDs	Temperature & Humidity Test	1,000 hrs (85°C, 85%RH)	
Cellular Phone, Notebook,	High Temperature Storage	1,000 hrs (150°C)	
PDAs and Wireless Systems	Thermal Shock Test	200 cycles (-55/125°C)	
	Pressure Cook Test	168 hrs (121°C,100%RH, 2atm)	
	FEATURES		

- Low package profile: 1.10mm
- BT substrate
- Eutectic Sn63/Pb37 solder ball, Pb free solder option
- Full in-house design capability

THERMAL PERFORMANCE								
Body Size (mm)	Ball Count	Ball Pitch (mm)	Thermal Ball Qity	Die Size (mm)	θja (°C∕W)	Substrate	РСВ	
6x8	36	0.75	0	2.905x4.085	55.891	2	4	
13x13	175	0.80	0	7x7	30.68	2	4	
ELECTRICAL PERFORMANCE								

Body Size	Ball Count	Substrate Layer	L(nH)	C(pF)	R(mohm)
6x6	49	2	3.36~1.212	0.797~0.332	177.7~75.74
13x13	175	2	9.42~0.181	3.04~0.23	301~14.7

Note: Results are simulated. Data is available through 100 MHz.



