

Specifications

- Die Thickness
- Gold Wire
- Pd/Cu Wire
- Ag Wire
- Mold Cap Thickness
- Marking
- Packing Options

Reliability

- Moisture Sensitivity Level

Temperature Cycling

High Temperature Storage

Pressure Cooker Test

Temperature/Humidity Test

Unbiased HAST
- JEDEC Level 2A, 260°C Reflow

Condition C (–65°C to 150°C), 1000 cycles

150°C, 1000 hrs

121°C, 100% RH/2 atm, 168 hrs

85°C/85% RH, 1000 hrs

130°C/85% RH/2 atm, 96 hrs

Thermal Performance θ_{ja} (°C/W)

Package	Body Size (mm)	Pin Count	Die Size (mm)	Thermal Performance θ_{ja} (C/W)
LFBGA	11 x 11 (2L)	144	4.5 x 4.5	34.1
LFBGA	15 x 15 (4L)	208	10.2 x 10.2	19.4

Note: Simulation data for package mounted on 4 layer PCB (per JEDEC JESD51-7) under natural convection as defined in JESD51-2.

Conductor Component	Length (mm)	Resistance (mOhms)	Inductance (nH)	Inductance Mutual (nH)	Capacitance (pF)	Capacitance Mutual (pF)
Wire	2	120	1.65	0.45 - 0.85	0.10	0.01 - 0.02
Net (2L)	2 - 7	34 - 119	1.30 - 4.55	0.26 - 2.28	0.25 - 0.95	0.06 - 0.42
Net (4L)	4 - 9	154 - 239	2.95 - 6.20	0.71 - 3.13	0.35 - 1.05	0.07 - 0.44
Wire	2	120	1.65	0.45 - 0.85	0.10	0.01 - 0.02
Net (4L)	2 - 7	34 - 119	0.90 - 3.15	0.18 - 1.582		

Cross Sections

FPGA

