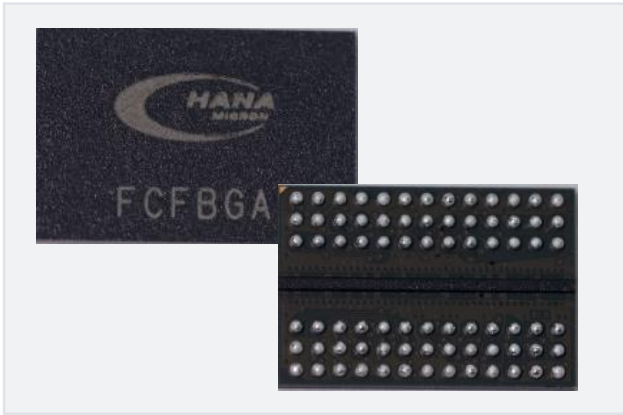
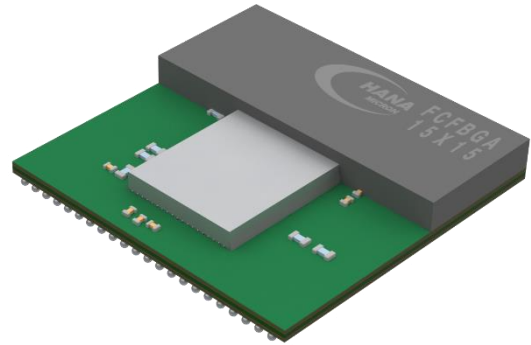


FCFBGA

Flip chip Fine-Pitch Ball Grid Array



Reference Image



Description

HANA Micron is offering the Flip Chip FBGA (flip chip solution in a CSP package format). The flip chip package construction utilizes Sn bump ball flip chip interconnect technology instead of standard wire-bond interconnect.

The FCFBGA is an overmolded package with solder balls. It has a low inductance of flip chip bump joints with a direct signal path. It is designed for high frequency application.

HANA Micron's Flip Chip FBGA packages are available in flip chip bump ball counts ranging from 32 to 1,624 ball counts. Body sizes range from 4x4mm to 17x17mm with various package formats. The flip chip assembly process allows for a minimum of 150um (min pitch) full array flip chip bump.

Features

- Body size 2.2mm to 17mm
- Package profile Min 0.40mm
- Bump pitch Min. 54um (Cu Pillar)
- Bump type Pb Free, Cu Pillar
- Ball size Down to 0.17mm (Pb-free)
- Ball pitch Min 0.35mm
- MUF available
- Pb-Free, RoHS compliant & Green BOM

Applications

- PC, Laptop & Server
- Mobile Phone
- Network
- Power/Analog IC drive
- Control derive IC for portable electronic device

FCFBGA

Flip chip Fine-Pitch Ball Grid Array

FCFBGA

Size(mm)	Package	LD Count	Ball Pitch	Fab Node	Bump Pitch	Bump Count
5.7x5.7	FCBGA	153	0.40mm	-	148um	467
7.5x11.0	FCBGA	78	0.80mm	17nm	70.6um	497
10x12	FCBGA	534	0.40mm	-	147um	1457
11.5x11.5	FCBGA	708	0.40mm	-	140um	1394
15x15	FCBGA	319	0.75mm	-	140um	420
15x15	FCBGA	697	0.50mm	-	151um	1519
15x15	FCBGA	721	0.50mm	-	147um	1457
17x17	FCBGA	508	0.65mm	-	140um	805

FCFBGA-Hybrid

Size(mm)	Package	LD Count	Ball Pitch	Fab Node	Bump Pitch	Bump Count
11.5x13.0	FCFBGA-Hybrid	254	0.50mm	14nm	54um	186
13x13.5	FCFBGA-Hybrid	844	0.40mm	28nm	140um	1229
13x14	FCFBGA-Hybrid	844	0.40mm	28nm	140um	1229
13x14	FCFBGA-Hybrid	225	0.40mm	28nm	151um	608

FCFBGA-SiP

Size(mm)	Package	LD Count	Ball Pitch	Fab Node	Bump Pitch	Bump Count
8.87x9.26	FCBGA-Sip	73	0.50mm	-	75um	1428
11.5x11.5	FCBGA-Sip	261	0.65mm	-	157um	978
16x16	FCBGA-Sip	529	0.63mm	-	150um	947
17x17	FCBGA-Sip	521	0.65mm	-	151um	836
17x17	FCBGA-Sip	537	0.65mm	-	150um	772
17.5x17.5	FCBGA-Sip	544	0.65mm	-	150um	844