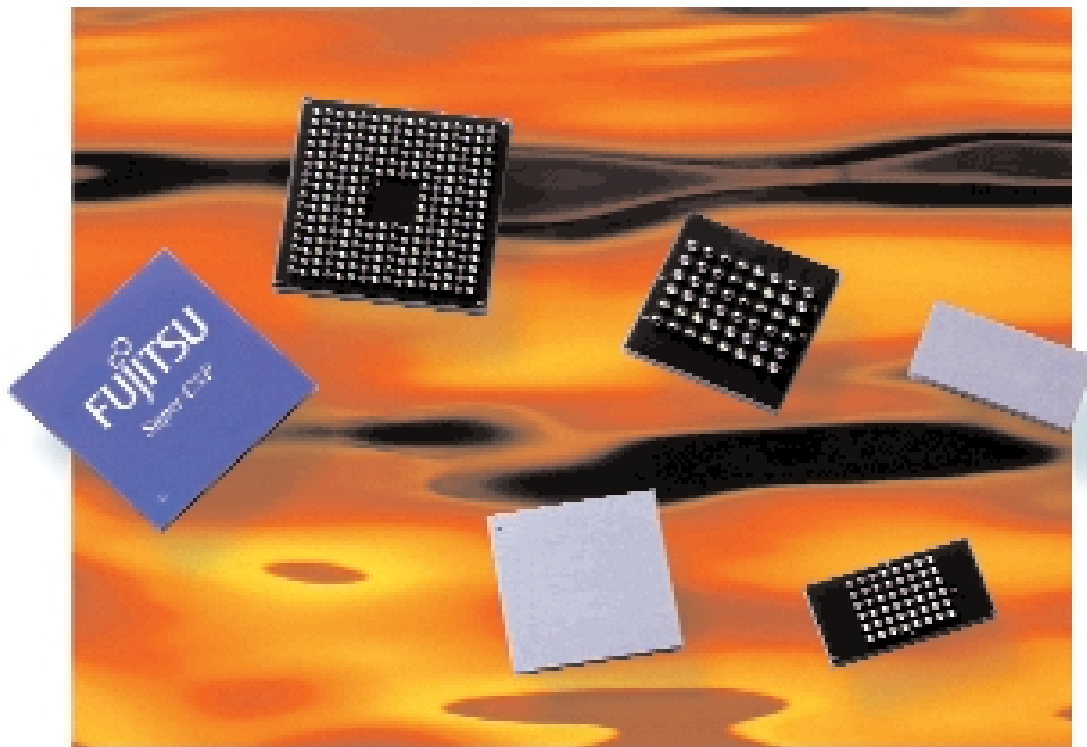


# Super CSP

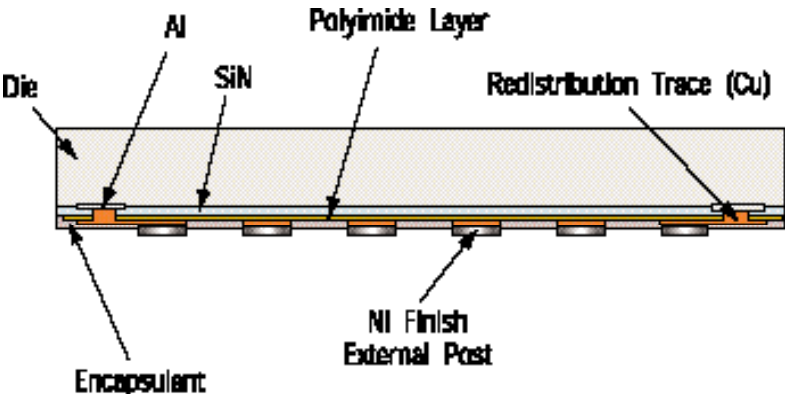
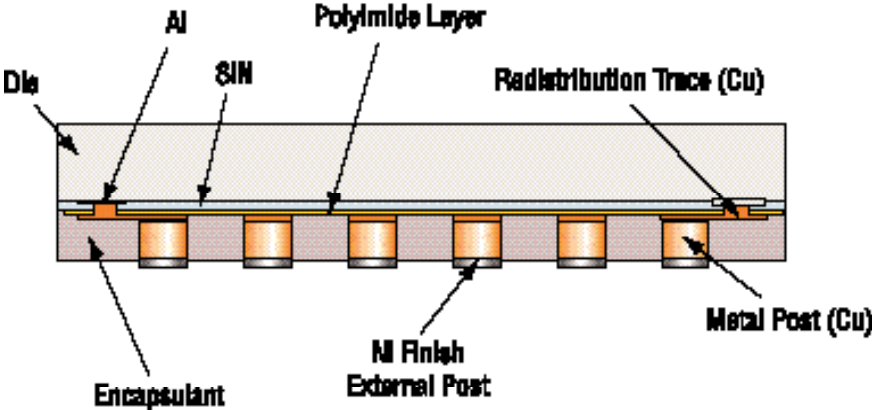
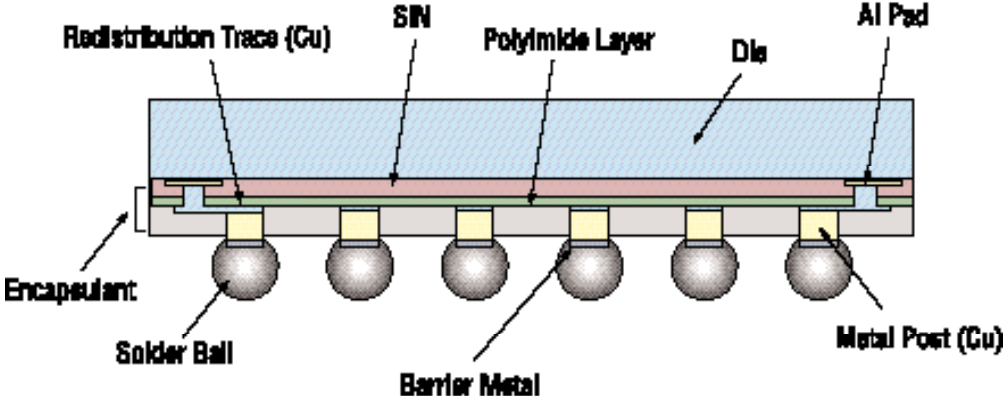
Super Chip Scale Package (SCSP) is a wafer level package that is a true chip size package. It provides a potential solution for “known good die”, or one test point operation as compared to two. In single chip packaging, it is customary to have testing at the wafer probe and again after packaging.

This package is ideal for low to mid range pin count applications, such as FLASH memory, ASIC and System on Chip (SOC). Board level reliability is excellent due to the use of flexible copper posts and modified epoxy resin, as well as CTE close to that of the motherboard. Underfill is not required as the epoxy resin provides a barrier to the alpha particle radiation.



- True Chip Size Package (CSP)
- No underfill required
- Wafer level processing
- Improved reliability and performance
- Cost effective

# Super CSP



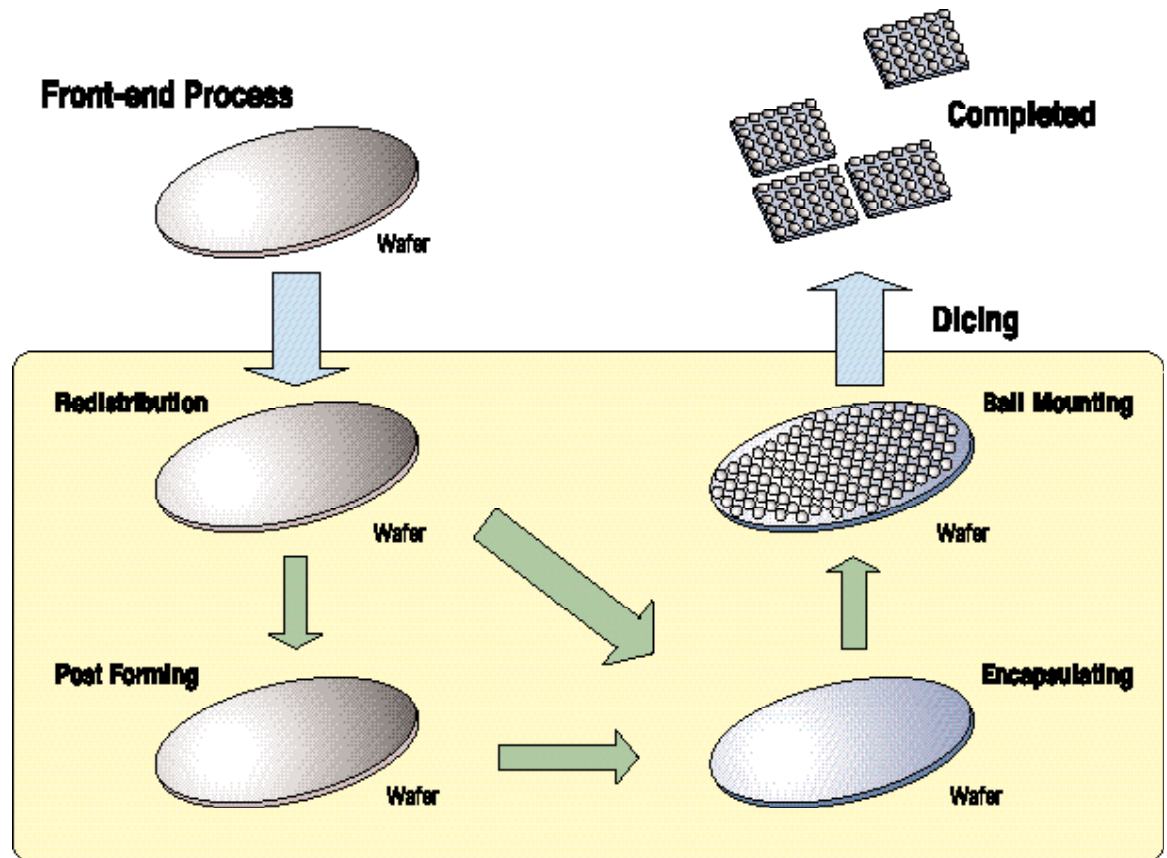
# Super CSP

## Standard Package Line-up

Package Type	Body Size (mm)	Pitch (mm)	Solder Ball	
			Row	Matrix
BGA48	3.51 x 7.05 x 1.00	0.5		6 x 8
LGA48	3.51 x 7.05 x 0.75	0.5		6 x 8
LGA48	4.70 x 5.32 x 0.75	0.5		6 x 8
LGA92	5.51 x 5.63 x 0.75	0.4	3	11 x 11
LGA240	8.20 x 8.20 x 0.75	0.4	4	19 x 19
LGA300	9.00 x 9.00 x 0.75	0.4	5	20 x 20

Custom configurations are available upon request.

## Fabrication Flow



## Package Reliability (SCSP 48)

Test item	Condition	Cycle	Result
Temperature cycle*	-65°C ~ 150°C	500 cycles	Pass
Pressure cooker	+121°C/85%RH	1000 hours	Pass
HTS	+150°C	500 hours	Pass
Moisture sensitivity	JEDEC Level 1		Pass

\* Precondition: PB (+125°C/24 hours) + 85°C/85%RH/48 hours + IR reflow (+240°C peak)