MicroThin[™] Series

IC 封裝載板用極薄銅箔 Thin copper foil for IC Substrate



最適用於 MSAP L/S ≤ 30/30μm 微細線路製程。
Useable for very fine pitch pattern under L/S=30/30μm formation by MSAP.

MicroThin[™] Structure

18μm 銅箔 Carrier Copper



MicroThin[™] Line up

Variations		Surface roughness [µm]	Target L/S by MSAP*	Thickness [μm]			
				1.5	2	3	5
Low Profile	MT18Ex	Rz 2.0	25/25μm		•	•	•
Very Low Profile	MT18FL	Rz 1.3	15/15μm	•	•	•	
Special Low Profile	MT18GN	Rz 0.9	10/10μm	•	•	•	

*MSAP: Modified Semi-Additive Process

MicroThin[™] Main Applications

IC Substrate

DRAM (1)

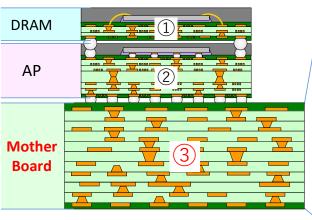
Application Processor ② RF module / AiP

Mother Board ③

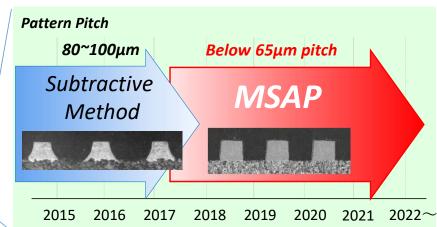
· MSAP 不僅是應用於IC封裝載板, 亦已使用在HDI主板。

MSAP has been applied to Mother Board.

Cross-section of Smartphone



Change of patterning method on Mother Board



MSAP 製程應用於主板的原因

Reason for applying MSAP to Mother Board

- 主板可高密度化 & 小型化,擴大電池的容量 Miniaturization and densification of Mother Board to enlarge battery capacity
- ・降低 BGA 球距 ・改善 IC 封装的功能 BGA ball pitch reduction with improving the function of IC package
- ·提升高速訊號傳輸特性 Improvement of signal characteristics in high speed signal

