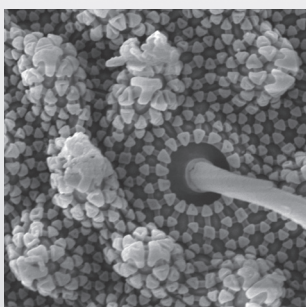


Living up to Life

Leica
MICROSYSTEMS

Material
Research



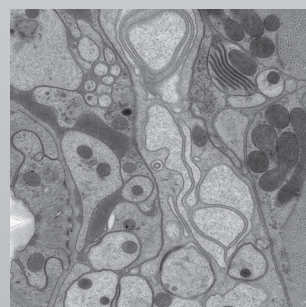
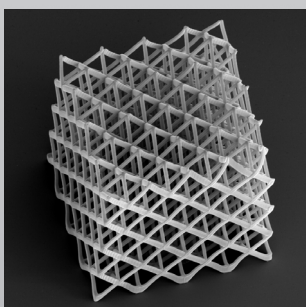
Life Science
Research

Application Note

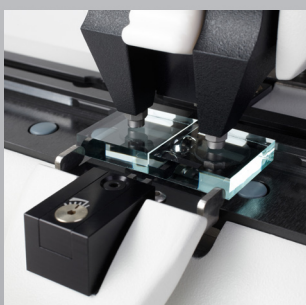
Cross Section of Chip capacitor

related instrument Leica EM TIC020, Leica EM TIC3X

Medical
Research



Industrial
Manufacturing



Natural
Resources



Cross Section of Chip capacitor

Market: Microelectronics QA/Research

GOAL

Cross section of the chip capacitor

Process description (benchmark values for this particular sample):

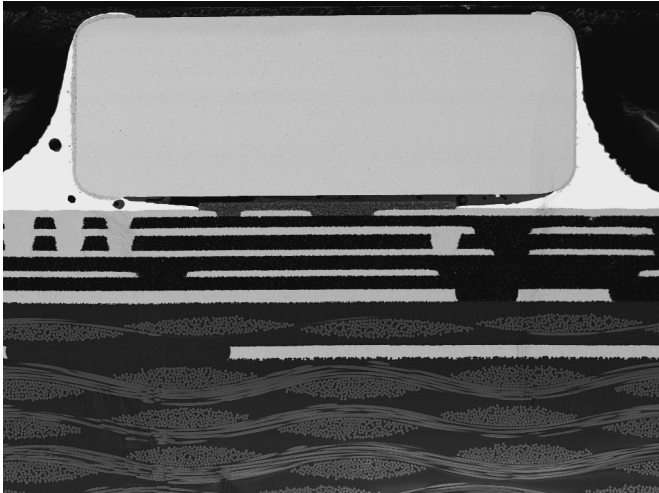
| Parameter | |
|-----------------------|--------|
| Acceleration voltage | 7 kV |
| Gun current | 2.6mA |
| Milling time | 6 h |
| Cut depth | 1.7 mm |
| Complete process time | 15 h |

RESULTS

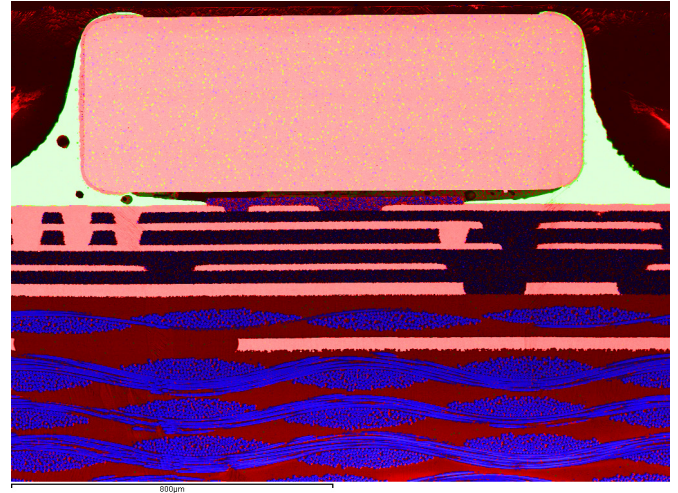
Very deep slope cut with perfect surface

EDS images even from thin intermediate layers like Cu and Ni proof the preparation quality

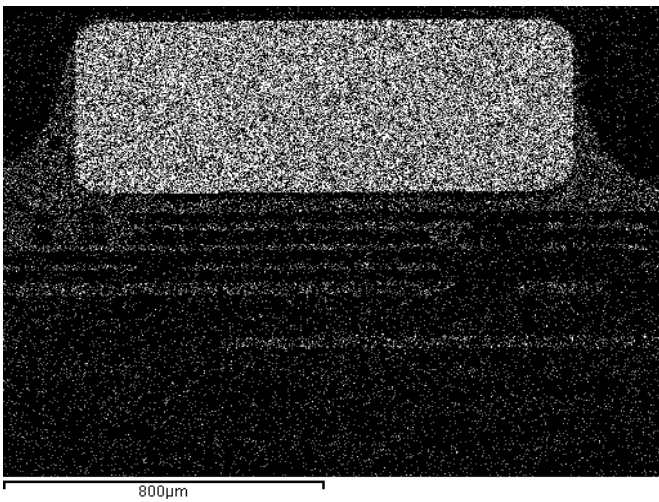
EDS images of the chip capacitor proof the quality of the slop cut



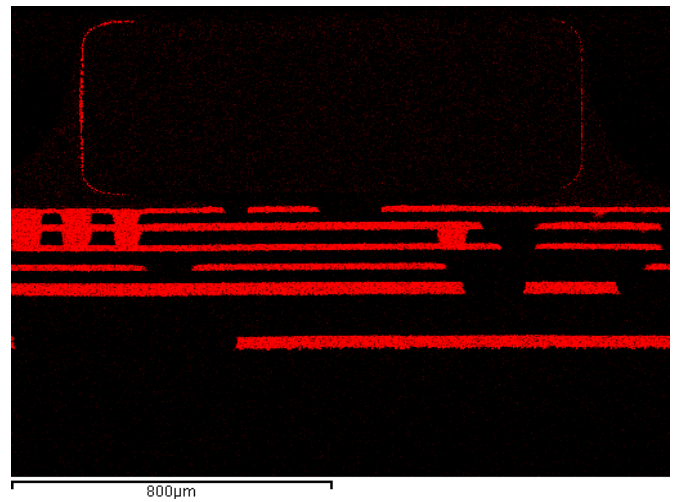
SE image



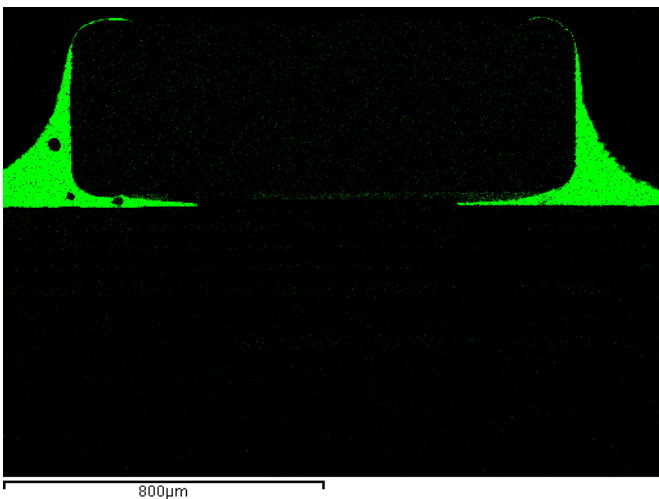
Mix map



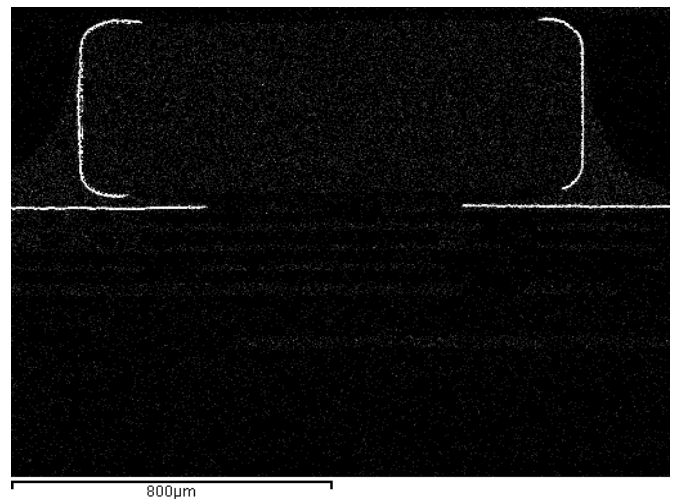
Ba



Cu



Sn



Ni

RELATED PRODUCTS



Leica EM TIC020



Leica EM TIC3X

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