OKMETIC RFSi®



High Resistivity SSP and DSP Wafers

- Optimized for RF filter and device needs
- Enabling even close to zero substrate-induced losses and nonlinearities
- Enabling minimal 2nd harmonic and IMD3 values



GENERAL WAFER SPECIFICATIONS

Growth method: MCz, A-MCz®
Crystal orientation: <100>, <111>
Diameter: 150 mm, 200 mm
Dopant: Phosphorus, Boron
Resistivity: Up to >10 kOhm-cm

Oxygen: Typically ≤5 ppma or ≤10 ppma (ASTM F121-83)

SSP wafer thickness (etched backside): 150 mm: 400 to 1,150 μ m | 200 mm: 550 to 1,150 μ m* DSP wafer thickness (polished backside): 150 mm: 380 to >1,150 μ m | 200 mm: 380 to 1,150 μ m*

Trap-rich layer: Purely silicon-based, no foreign materials

*Other thicknesses possible with certain limitations

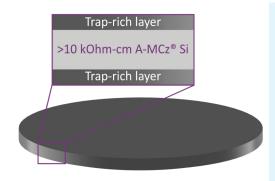




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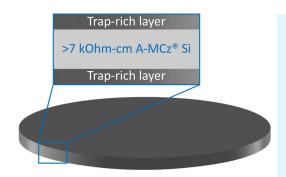


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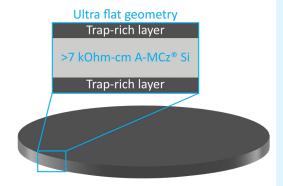
Engineered Ultra High Resistivity wafers

- · Optimized A-MCz® silicon wafer with low Oi and >10 kOhm-cm resistivity
- Trap-rich layer and doping process taken to extremes
- Best technical performance: close to zero substrate-induced losses and nonlinearities
- Available in 200 mm
- > Premium solution for RF filters



Engineered High Resistivity wafers

- Optimized A-MCz® silicon wafer with low Oi, up to >7 kOhm-cm resistivity and trap-rich layer
- Superior RF performance and very low losses
- Available in 150-200 mm
- > For RF filter and IPD devices



UF-RFSi® wafers

- Optimized A-MCz® silicon wafer with low Oi and up to >7 kOhm-cm resistivity
- Trap-rich layer and Ultra Flat geometries with very low TTV + non-circular symmetry variation
- Enabling superior RF performance and challenging active layer geometries
- Available in 150-200 mm
- Also available in Ultra High Resistivity version
- > For Thin Film SAW



