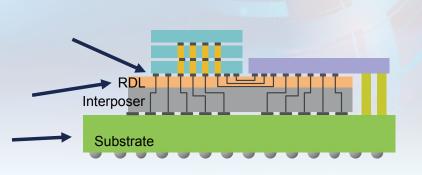
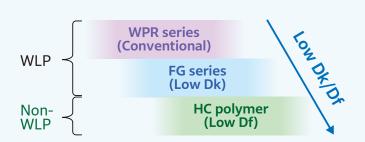
JSR Dielectric Materials

- ☐ Buffer coat, RDL dielectrics
- ✓ WPR series
- ☐ RDL in high density wiring
- ✓ FG series
- ☐ Low Df polymer for Substrate
- ✓ HC polymer

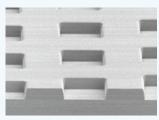




Electrical properties	Photo- imageability	Developer
Dk:>3.0	Yes	Alkaline
Dk: 2.9~2.7	Yes	Alkaline
Df: <0.002	No	N/A

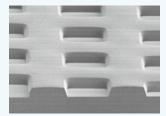
WPR series

After Dev.



Positive-tone FT=6 μm, 20 μm SQ

After Cure



Key Features

- ► Low cure temperature (200 °C)
- Low Shrinkage through cure (< 10 %)
- ► Low residual stress (< 20 MPa)
- ▶ High resolution
- ▶ Excellent adhesion to SiN, SiO₂ and Cu
- Excellent heat resistance
- ▶ Long history for global customers

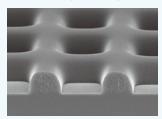
FG series

After Dev.



Positive-tone FT=2 μm, 3 μm SQ

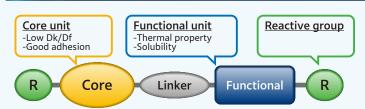
After Cure



◆Key Features +

- Lower Dk (2.9@10 GHz)
- ▶ Lower water absorption
- ► Higher resolution (2 μm-SQ)

HC polymer



♦ Key Features

- Low Df (< 0.002)
- ► High heat-resistance
- ▶ Good compatibility with chemicals
- ▶ Good adhesion

