

—Processable by UV-YAG laser, Low Dk & Df— Fluorine-film based FCCL “FU series”

Example of use

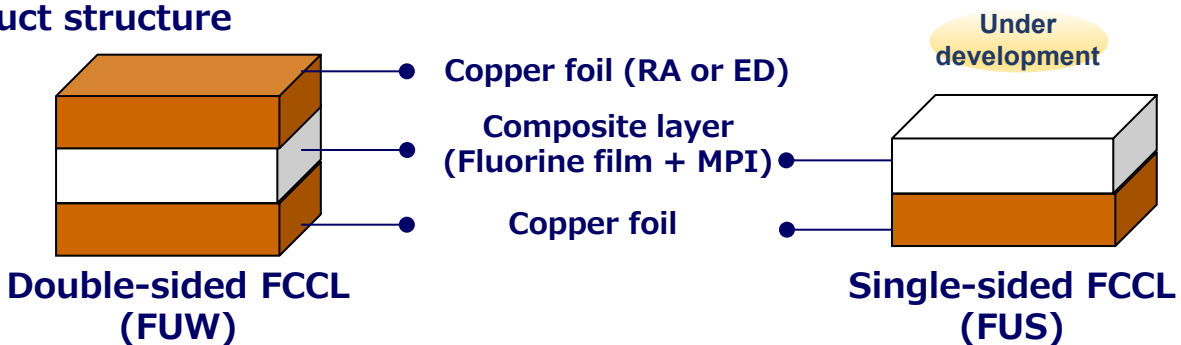
- Substrate for vehicle antenna (LiDAR and others)
- Substrate for base station antenna
- Flexible substrate for high speed data transmission compatible with millimeter-wavelength (for antenna)



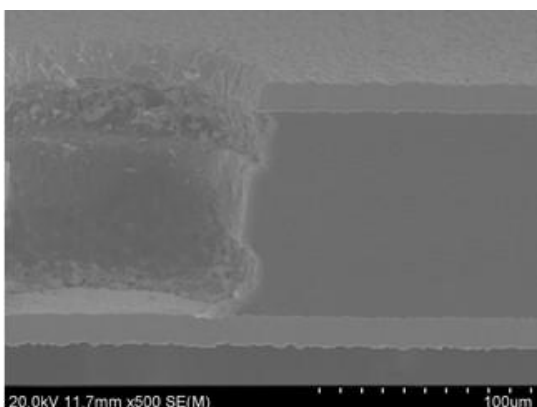
Characteristics

- Low Dk, low Df, and low water absorption.
- Processability by UV-YAG laser is the same to that of general PI-based FCCL.
- Thickness lineup for insulation layer : 25, 50, 75, and 100μm.

Product structure

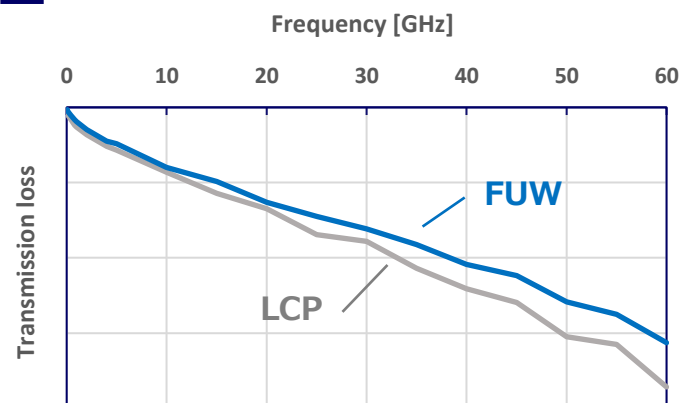


Cross-sectional image of BVH



BVH processing : UV-YAG ($\lambda=355\text{nm}$)
Insulation layer thickness : 100μm

Transmission loss



Circuit : Micro-strip patterning
Impedance : $50\pm 5\Omega$ (designed)
Test environment : 23°C, 50%RH
Insulation layer thickness : 100μm (both FUW & LCP)
Cu thickness : 12μm
Circuit length : 100mm