

Dual Band Film Type Antenna for Mobile Devices

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The dual band antenna for mobile devices has been developed for such a Laptop PC. It is an original Film Type Antenna, which corresponds to the operating frequency of two Wireless LAN standards, the 2.4GHz band (IEEE 802.11b) and 5.2GHz band (IEEE 802.11a). It is of made into the 30.0mm x 30.0mm x 0.3mm thin shape in order to realize easy installation into small devices. Furthermore, unidirectional functionality has been incorporated on each band.



Fig.1 – General view of the Dual Band Film Type Antenna

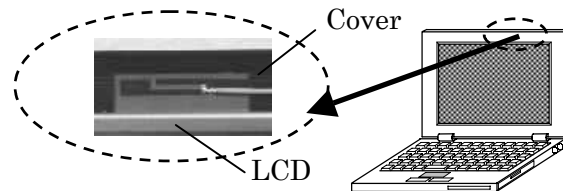


Fig.2 – Built-in state Dual Band Film Type Antenna for the LCD case.

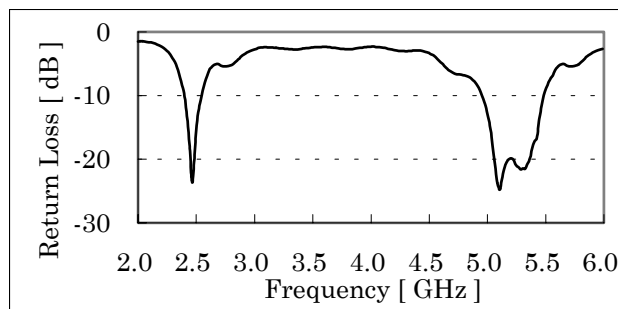


Fig.3 – Resonation property of Dual Band Film Type Antenna when being built-in in the LCD case.

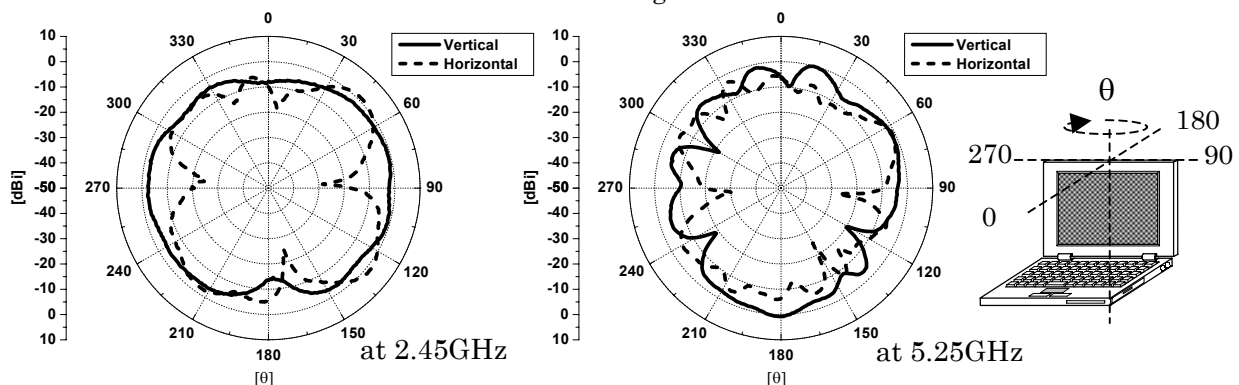


Fig.4 – Radiation directivity of Dual Band Film Type Antenna when being built-in in the LCD case.

Information

- (1) B1.2. Antennas for wireless communications
- (2) Developed a new concept structure makes easy installation of a dual band antenna into a conventional Laptop PC structure.
- (3)