

## Quarter Wave Dielectric Transmission Line Diplexer for Land Mobile Communications

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*K. Wakino, T. Nishikawa, H. Matsumoto and Y. Ishikawa. "Quarter Wave Dielectric Transmission Line Diplexer for Land Mobile Communications." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 278-280.*

Small sized Diplexer with high selectivity and low insertion loss for 800 MHz band land mobile communication systems has been developed using two port quarter wave coaxial dielectric resonators. A couple of resonators including inductive film electrode construct a compact resonance unit of the Diplexer and it is coupled by capacitive air gap spacings which operates as a part of J-inverter.

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