

Abstracts

LTCC-MLC duplexer for DCS-1800

Jyh-Wen Sheen. "LTCC-MLC duplexer for DCS-1800." 1999 Transactions on Microwave Theory and Techniques 47.9 (Sep. 1999, Part II [T-MTT] (Special Issue on Multilayer Microwave Circuits)): 1883-1890.

A low-temperature cofired-ceramic (LTCC) multilayer-ceramic (MLC) duplexer is presented in this paper. The duplexer is designed for a DCS-1800 handset. It is constructed using a multilayer laminated bandpass filter and a multilayer laminated bandstop filter. These two filters are capable of easy tuning after duplexer manufacture. The computer-aided design flowchart is also presented. Additionally, the tuning method and loss improvements of the duplexer are discussed. Measured results show the performance of the LTCC-MLC duplexer is acceptable for DCS-1800 applications.

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