

Development and Manufacturing of Ceramic and Aluminum Microwave Components Using Additive Manufacturing Methods

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The presentation describes the development with view on additive manufacturing methods, the production and the test of microwave components. Starting with the selection of suitable manufacturing processes and materials, the determination of the mechanical and electrical material properties and the identification of the required process parameters for the additive manufacturing. Further topics include testing the demonstrators using CT analysis and coating the surfaces, especially for the ceramic demonstrator. Finally, the assembly of the demonstrators is described and first electrical results are presented.