

Structure and properties of $\text{La}_{2/3}\text{TiO}_3\text{-(Zr,Sn)TiO}_4$ microwave dielectric ceramics

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$x \text{La}_{2/3}\text{TiO}_3 : (1-x)(\text{Zr,Sn})\text{TiO}_4$ ceramics with x ranging from 0 to 1, were elaborated by conventional solid-state reaction. Ceramics samples were sintered around 1350°C . These sintering temperatures have been determined taking into account thermodynamic data. Structure, microstructure, low frequency and microwave dielectric properties were investigated. Dielectric constants are in the 35 to 65 range and QF values, measured at 3-4 GHz, are ranging from 14 to 33 000 GHz.