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# Elaboration and characterization of a piezoelectric ceramic resonator

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**Abstract :** In this work. We Synthesized  $PbTiO_3$  from  $PbO$  and  $TiO_2$  oxides from Solid state reaction and we studied the development and manufacture of solid piezoelectric resonator of PT .We played on parameter as sintering time. We used XRD and SEM for morphological characterization and Analyzer for impedance piezoelectric characterization.

**Keywords :** PT, ferroelectric, resonator, impedance, XRD, SEM