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Abstract
Two kinds of powders are used in this study, one is micro size powders (about 2μm) and the other is nano size powders (about 40nm). The sintering temperatures of BaTiO3 ceramics with nano size powders is 150℃ lower than that with micro size powders. The gain size of micro size powder BaTiO3 ceramic is about 10μm, but that of nano size powders is about 0.5μm. Due to the grain size effect, the dielectric constant of nano size powder BaTiO3 ceramic (about 5000) is larger than that of micro size powder BaTiO3 ceramic (about 2000).
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