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Abstract
The dielectric properties of barium titanium ceramics fabricated with nano-powders (about 40nm) are compared with that fabricated with coarse powders (about 2 m). The sintering temperatures are decreases with the decreasing of the starting powders size, the sintering temperatures of the ceramics used nano-powders are lower 1about 150℃ than that used coarse powders. For the same sintering conditions, the relative density of the ceramics was increases with the increasing of the amount of nano-powders. The gain size of the sintered ceramics body about 1 m. The room temperature dielectric constant of the ceramics with nano powder is about 4500, but that of coarse powder is only 2200.
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