

NKN-0.94BNT-0.06BT 세라믹스의 전기적특성 Electrical properties of NKN-0.94BNT-0.06BT ceramics

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Abstract : In this study, both structural, dielectric properties of the NKN-0.94BNT-0.06BT ceramics were investigated. All samples of the NKN-0.94BNT-0.06BT ceramics were fabricated by conventional mixed oxide method with Pt electrodes. We report the improved electrical properties in the perovskite structure composed of the NKN, BNT and the BT ceramics. We investigated the effects of NKN, BT on the structural and electrical properties of the NKN-0.94BNT-0.06BT ceramics. The dielectric and structural properties of the NKN-0.94BNT-0.06BT ceramics were superior to those of single composition NKN, NKN-BNT and those values for the NKN-0.94BNT-0.06BT ceramics were 1455, 0.025 and 29.04 $\mu\text{C}/\text{cm}^2$.

Key Words : Morphotropic Phase Boundary, dielectric properties, depolarization temperature, volatilization

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