

고주파 적용을 위한 금속/ZrTiO₄/금속 캐피시터 특성
(Properties of Metal/ZrTiO₄/Metal Capacitors for Microwave Applications)

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Abstract : There are fast growing demands for new dielectric materials for passive capacitors of RF-ICs and other wireless applications. One of the bulk microwave dielectric materials which have superior properties is ZrTiO₄ due to its large dielectric constant and high quality factor. Therefore, ZrTiO₄ is worth studying as a form of thin film to be applied for passive capacitors of integrated circuits. In this study, we fabricated metal-insulator-metal type capacitors with ZrTiO₄ dielectric thin film, and evaluated their capacitor properties.

Key Words : ZrTiO₄, thin film, capacitor, microwave dielectric