

전단 모드를 이용한 초음파 모터의 시뮬레이션

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Abstract : In this study, in order to develop lead-free share-mode ultrasonic motor, finite element method(FEM) simulation were executed using ATILA simulator and their results were investigated. Share mode ultrasonic motor models are made up stator and two ceramic disks and it simulated according to the different ceramic disk dimensions. The results shows optimum ceramic disk dimensions and design.

Key Words : share-mode ultrasonic motor, FEM simulation, ceramic disk dimensions