Abstracts

3D FDTD Analysis Applied to the Investigation of the Resonant Behavior of Ceramic Feedthrus

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Ceramic feedthrus provide hermetically sealed interconnections for many different package types. Just as with the package itself the transfer function of the feedthru is affected by resonances. The application of the three-dimensional finite difference time-domain method is a straight forward technique to simulate such effects. Special consideration is given to the basic resonance mechanisms by building up the feedthru step by step. The simulated results from these structures are examined and for specific examples comparison with mesured results is shown.

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