

CAD and optimization of compact ortho-mode transducers

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We describe a new, efficient, computer-aided optimization technique for compact ortho-mode transducers (OMT). As an example, we refer to the full-wave design of an OMT operating in the 17-18.5 GHz frequency band; this design has been entirely carried out at computer level and demonstrates a significant advantage in terms of development times and no need of post manufacturing adjustments. The very satisfactory agreement between experimental and theoretical results further confirms the validity of the proposed technique.

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