Abstracts

Designing high-performance finline tapers with vector-based optimization

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A novel two-step optimization algorithm is presented for the design of high performance finline transitions. The method exploits the vector representation of the integral form of the reflection coefficient of smoothly varying tapers. Measured results of a very short taper, exhibiting less than 30 dB of reflection across the whole of the X-band, are presented as an example.

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