

A frequency/time domain characterization technique for frequency-translating devices

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A novel approach and a new measurement setup for the characterization of frequency translating devices (FTD) are proposed. The proposed approach allows for an automated, one-step full characterization of FTDs by measuring both the magnitudes and phases of the incident and reflected waves at all signal ports. The application of the proposed approach and the developed measurement setup to the characterization of a double balanced mixer is presented.

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