

Transmission Response Measurements of Frequency Translating Devices

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This paper presents two methods for accurately determining the transmission response of frequency translating devices: an inferred response technique using a vector network analyzer, and a direct response technique utilizing a microwave transition analyzer. Tradeoffs between these two approaches are presented along with results for a 20 GHz downconverter. The emphasis here is on single-sideband converters, but the application to double-sideband converters is also described briefly.

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