

Abstracts

Broad-band external modulation fiber-optic links for antenna-remoting applications

E.I. Ackerman and A.S. Daryoush. "Broad-band external modulation fiber-optic links for antenna-remoting applications." 1997 Transactions on Microwave Theory and Techniques 45.8 (Aug. 1997, Part II [T-MTT]): 1436-1442.

We present a 6-12 GHz external modulation fiber-optic link with a spurious-free dynamic range (SFDR) of 65.5 dB MHz. This result validates an analytical model for external modulation link performance which we have updated from a previously published model to account for the use of a traveling-wave external modulator. Using the revised model, we compare the expected performance of two different link architectures.

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