

Abstracts

A 60 GHz 256 QAM balanced vector modulator for short range LOS communication applications (1998 [RFIC])

S. Nam, A.E. Ashtani, G. Passiopoulos, S. Lucyszyn and I.D. Robertson. "A 60 GHz 256 QAM balanced vector modulator for short range LOS communication applications (1998 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 271-274.

An I-Q type vector modulator employing two orthogonal bi-phase amplitude reflection type modulators has been demonstrated which sets a new benchmark for a multilevel direct carrier modulator for digital communications. The 60 GHz modulator uses design techniques and technology capability to reduce hardware complexity in communication applications. The modelling and design of the balanced I-Q vector modulator are reported, followed by the measured performances.

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