

Comparison of Direct and Downconverted Digitization in GPS Receiver Front End Designs

J.B.Y. Tsui and D.M. Akos. "Comparison of Direct and Downconverted Digitization in GPS Receiver Front End Designs." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1343-1346.

This paper compares two front end designs of a global positioning system (GPS) receiver. The first approach is the direct digitization of the input signal and the second approach is to downconvert the input signal to an intermediate frequency (IF) then digitize it. Theoretically, these two methods should produce similar results and our experimental data support this argument.

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