Abstracts

Recent Progress in Wideband Monolithic Direct Digital Synthesizers

G. Van Andrews, J.B. Delaney, M.A. Vernon, M.P. Harris, C.T.M. Chang, T.C. Eiland, C.E. Hastings, V.L. DiPerna, M.C. Brown, W.A. White and L.J. Kushner. "Recent Progress in Wideband Monolithic Direct Digital Synthesizers." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1347-1350.

This paper presents recent progress in the development of wideband monolithic GaAs DDSs, since its debut in 1992. A vvideband DDS generates sinusoidal waveforms with several hundred megahertz of bandwidth, subhertz resolution and nanosecond frequency switching speeds. A discussion of improvements made to the monolithic GaAs HBT DDS and factors driving design and performance are presented.

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