

Abstracts

Fast Starting, Pulse Primed DROs without Phase Noise Degradation

G. Oborn. "Fast Starting, Pulse Primed DROs without Phase Noise Degradation." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1313-1316.

Starting time improvements of as much as 700 ns (over 60%) and virtual elimination of the associated jitter is presented for series feedback DROs by uniquely applying a pulsed priming signal. Since resonator Q reduction is not required, the inherent oscillator phase noise is not degraded. The present technique of introducing the priming signal still allows for electrical tuning of the oscillator. Finally, an X-band pulse primed DRO is presented which starts in 60 ns without any observable starting time jitter.

[Return to main document.](#)