Abstracts

A low cost 16.2 GHz phase locked oscillator for wireless LAN

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For wireless LAN applications and the wireless ATM network demonstrator system "Magic WAND", a phase locked oscillator was built with standard, low cost components. Although a simple architecture is chosen, the oscillator has a phase noise of -87 dBc/Hz at 10 kHz frequency offset and an output power of 0 dBm at 16.2 GHz. By changing the reference frequency, the output frequency can be tuned from 15.61 GHz to 16.34 GHz without degradation of the phase noise.

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