

Abstracts

Phase Noise Reduction in Scanning Oscillator Arrays

X. Cao and R.A. York. "Phase Noise Reduction in Scanning Oscillator Arrays." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 769-772.

A five element coupled voltage controlled oscillator array using injection locking technique to obtain low phase noise combined power output is described. Spectrum measurement shows that a great improvement on the spectrum purity of the combined output of the array has been achieved. Measured radiation patterns indicate that phase-shifterless beam scanning technique works properly when a single element is phase-locked to a low phase noise source.

 [Return to main document.](#)