Abstracts

Megalithic microwave signal processing for phased-array beam forming and steering

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A microwave signal processing (MSP) architecture is presented for active phased array beam forming and steering. A large scale network, comprising 63 power dividers and 32 pairs of orthogonal phase-amplitude controllers, has been successfully developed in a single GaAs MMIC. This megalithic chip could mark an epoch in phased-array antenna systems.

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