Abstracts

Integrated optic RF phase shifter for continuous beam steering at 1-1200 MHz

A. Mitchell, K. Ghorbani, M. Austin and R. Waterhouse. "Integrated optic RF phase shifter for continuous beam steering at 1-1200 MHz." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 699-702.

A novel integrated optical RF phase shifter comprising a variable directional coupler and integrated feedback loop is demonstrated. RF phase shifts in the range 37/spl deg/-91/spl deg/ at 1.2 GHz can be continuously selected via a DC bias. The phase shifter scales linearly with frequency and thus may be applied to broadband antenna array phasing.

❑ Return to main document.