Abstracts

A compact T/R switching circuit using quadrature couplers and drain-driven HPAs

H. Uchida, M. Nii, Y. Tsukahara, M. Miyazaki and Y. Itoh. "A compact T/R switching circuit using quadrature couplers and drain-driven HPAs." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1349-1352 vol.2.

A novel T/R switching circuit is proposed for microwave T/R modules. It consists of balanced high-power amplifiers with quadrature couplers, and a low-noise amplifier which is connected to the isolation port of the coupler. In RX-mode, the HPAs are switched off by controlling drain voltage of FETs. A prototype C- to Ku-band T/R switching circuit has been fabricated, and the validity of the switching method has been confirmed experimentally.

❑ Return to main document.