

Abstracts

11-GHz MIC QPSK Modulator for Regenerative Satellite Repeater

G. Ohm and M. Alberty. "11-GHz MIC QPSK Modulator for Regenerative Satellite Repeater." 1982 Transactions on Microwave Theory and Techniques 30.11 (Nov. 1982 [T-MTT]): 1921-1926.

An 11-GHz MIC QPSK modulator for a 14/11-GHz, 120-Mbit/s regenerative satellite repeater is described. The modulator consists of cascaded 90° and 180° phase switches, realized with circulators and PIN diodes. The static and the dynamic behavior are presented. It is shown how the bit-error-rate performance is deteriorated by slow switching transients and timing errors.

[Return to main document.](#)