

Abstracts

An E-Plane Broadband Bi-Phase Balanced Modulator for Ka-Band

W. Thorpe. "An E-Plane Broadband Bi-Phase Balanced Modulator for Ka-Band." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 513-515.

A bi-phase p.s.k. modulator for use in 29 GHz Radio equipment has been developed that gives state of the art performance (3 dB insertion loss across 7% bandwidth and 70/100 Mbit/s data rate using beam lead PIN diodes as the switching elements). The circuit maintains the full instantaneous bandwidth without requiring any tuning or alignment during or after manufacture.

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