Abstracts

Controlled Wideband Differential Phase Shifters Using Varactor Diodes (Correspondence)

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For phased array transmitting systems diode step phase shifters of limited bandwidth have been developed. Thereby PIN diodes are used because they switch high peak power with low loss. In certain receiving systems and in most microwave measurements, however, a continuous phase adjustment is required. Thus, low power analog phase shifters covering broad frequency bands are desirable. This correspondence describes an electronically-controlled three-port network using varactor diodes, which produces a constant phase difference between the two output ports.

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