

Abstracts

An integrated active circulator antenna

M.J. Cryan and P.S. Hall. "An integrated active circulator antenna." 1997 Microwave and Guided Wave Letters 7.7 (Jul. 1997 [MGWL]): 190-191.

An active circulator is integrated with a quarter-wave short-circuited microstrip patch antenna to produce a fully duplexed transceiver with transmit and receive operation at the same frequency and with the same polarization. The active circulator antenna is shown to have 14-dBi transmit gain and 7.4-dBi receive gain with a transmit-receive isolation of 26.9 dB at 3.745 GHz. This active antenna has potential uses in both short-range communication and radar systems.

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