

# **Circularly Polarized Microstrip Ferrite Phase-shifter with Uneven Excitation**

Sheikh , S. I. and Dawoud, M.M.

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## **Abstract**

A low-cost and externally controlled planar microstrip ferrite phase shifter is designed, where the differential phase shift is considerably improved by introducing circularly polarized electromagnetic waves in the structure. Simulated phase response of the designed phase shifter is presented to demonstrate the improvement in the differential phase shift compared to an equivalent traditional microstrip ferrite phase shifter.