

# Abstracts

## Solid State 6x6 Transfer Switch for Cylindrical Array Radar

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*M.E. Knox, P.J. Sbuttoni, J.J. Stangel, M. Kumar and P. Valentino. "Solid State 6x6 Transfer Switch for Cylindrical Array Radar." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1225-1228.*

This paper describes an L-band solid state 6x6 transfer switch for a cylindrical array radar. Si PIN diodes are used as switching elements to achieve low-loss, high reliability, low life cycle cost, and enhanced performance. The 6x6 transfer switch contains a novel compact 3x3 transfer switch as a building block. A low cost, batch fabrication manufacturing process is presented to reduce production cost. The 6x6 transfer switch operates over 1.2 - 1.4 GHz with insertion loss of 1.3 dB, isolation of 36 dB, and amplitude and phase error of  $\pm 0.25$  dB and  $2.7^\circ$  RMS, respectively.

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