

CONFORMAL PHASED ARRAY ANTENNA DESIGN

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Abstract

An extremely low profile modular conformal phased array antenna design will be presented. Components that make up the antenna will be described to show the unique features such as the plug-in balun, the MHP phase shifter assembly, and the stripline RF manifold tracks incorporated to create a lightweight, reliable, maintainable panel. The eight element test array fabricated using the final array design features along with range test results will be given.