

Abstracts

Integrated Active Antenna Module for Space Station Multiple Access Communication

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The development of an integrated module applicable for use on the Space Station Freedom multiple access communication system (MACS) is presented. The innovative design of this module was found in the ability to merge the three key functions of circuitry, feed network and antenna element into a common unit capable of being mounted on a MACS user platform. The design utilizes a broadside suspended-stripline and balun to feed a balanced antenna element and still allow the active circuitry to be implemented in MMIC or hybrid MIC technology.

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