

Abstracts

A beam-forming network for a circular switched-beam phased array antenna

N.C. Karmakar and M.E. Bialkowski. "A beam-forming network for a circular switched-beam phased array antenna." 2001 Microwave and Wireless Components Letters 11.1 (Jan. 2001 [MWCL]): 7-9.

This paper reports on the design and development of a dividing/phasing network for a compact switched-beam array antenna for land-vehicle mobile satellite communications. The device is formed by a switched radial divider/combiner and 1-bit phase shifters and generates a sufficient number of beams for the proper satellite tracking.

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