Abstracts

Design and development of printed antenna remote units for optically distributed mobile communications

M. Lye, R.B. Waterhouse, D. Novak, F. Zavosh and J.T. Aberle. "Design and development of printed antenna remote units for optically distributed mobile communications." 1998 Microwave and Guided Wave Letters 8.12 (Dec. 1998 [MGWL]): 432-434.

The first demonstration of a printed antenna remote unit (ARU) for optically distributed mobile communications compliant with the 1.9 GHz PCN specifications is presented. The ARU consists of a cavity-backed printed antenna with appropriate RF and photonic circuitry. The ARU is low cost, compact, robust, and can be easily positioned in typical microcell/picocell sites. A summary of the design procedure for the ARU and the measured results are given. The developed ARU is a key component for the successful deployment of future optically distributed microcellular mobile communications systems.

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