Abstracts

Fiber Optic Milllimeter-Wave Subcarrier Transmission Links for Personal Radio Conununication Systems

H. Ogawa and D. Polifko. "Fiber Optic Milllimeter-Wave Subcarrier Transmission Links for Personal Radio Conununication Systems." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 555-558.

This paper proposes two configurations of fiber optic links for use in millimeter-wave subcarrier transmission for personal radio communication systems. The system concepts for millimeter-wave personal communication systems are first described and the advantages of millimeter-wave frequencies are discussed. The combination of direct modulation and indirect (external) modulation techniques are utilized to transmit millimeter-wave signals. The fiber optic link is experimentally investigated. The 25-GHz band FM transmitter/receiver and 70-MHz QPSK MODEM are connected to the fiber optic link. These signals are simultaneously transmitted and excellent performance is observed.

❑ Return to main document.