

Abstracts

Research on Millimeter Wave Communication in Japan

K.-I. Noda. "Research on Millimeter Wave Communication in Japan." 1967 G-MTT International Microwave Symposium Program and Digest 67.1 (1967 [MWSYM]): 32-34.

The present status of the research on millimeter wave communication in Japan is reviewed. This paper begins with a description of a millimeter-wave PCM transmitter assembly composed of an 12 GHz band diode switch and a quadrupler. This assembly was developed for the purpose of building an experimental PCM repeater for a long distance circular-electric-waveguide communication system. A repeater circuitry associated with this assembly is described. Germanium silber-bonded diode GSB3 generates above 0 dBm of millimeter continuous wave in the avalanche bias region. New components for repeater including this diode which would offer advantages in simplifying repeater, are also discussed.

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