Abstracts

Coherent Power Combining of Millimeter Wave Resonant Tunneling Diodes in a Quasi-Optical Resonator

T. Fujii, H. Mazaki, F. Takei, J. Bae, M. Narihiro, T. Noda, H. Sakaki and K. Mizuno. "Coherent Power Combining of Millimeter Wave Resonant Tunneling Diodes in a Quasi-Optical Resonator." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 919-922.

A Fabry-Perot resonator with a grating has been used for coherent power combining of a resonant tunneling diode (RTD) array in the millimeter wave region. Coherent power combining with two RTD's in the resonator has been successfully observed for the fundamental TEM/sub 00/ resonator mode at the frequency of 75 GHz.

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