

Abstracts

Octave Bandwidth Tunnel Diode Amplifier (Abstract)

G.J. Wheeler and J.H. Lepoff. "Octave Bandwidth Tunnel Diode Amplifier (Abstract)." 1963 PTGMTT National Symposium Program and Digest 63.1 (1963 [MWSYM]): 137-138.

Two tunnel diodes amplifiers were built, one covering 2-3 kmc and the other 3-4 kmc. In each case, the limit on bandwidth was the frequency band of the circulator used with the amplifier. As shown in the photograph below, the amplifiers were combined in a diplexing circuit to make a single two-port amplifier with better than 12 db gain over the octave 2-4 kmc.

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