

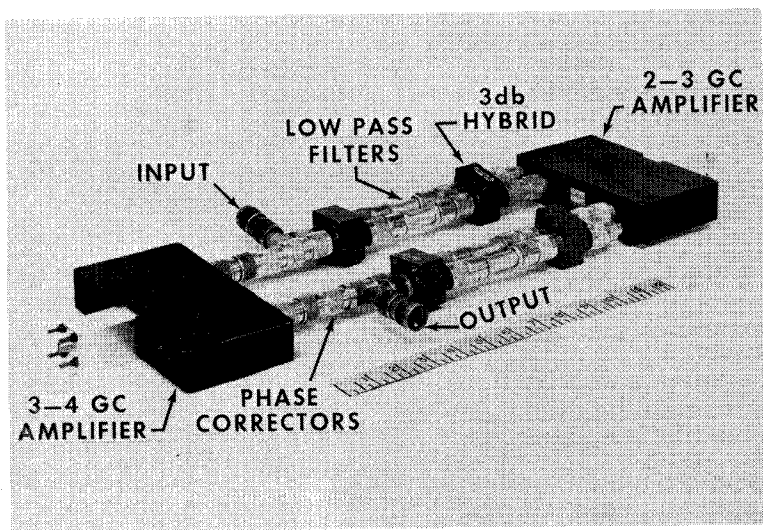
OCTAVE BANDWIDTH TUNNEL DIODE AMPLIFIER

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ABSTRACT

Two tunnel diode 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.



NOTES

MICROWAVE DEVELOPMENT LABORATORIES, INC.
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Design, Development and Production of precision microwave
components and assemblies.