Abstracts

Millimeter wave broadband frequency tripler in GaAs/InGaP HBT technology

C. Beaulieu. "Millimeter wave broadband frequency tripler in GaAs/InGaP HBT technology." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1581-1584.

A millimeter wave broadband MMIC frequency tripler has been designed using GaAs/InGaP HBT technology. The tripler operates in a near class-B regime for low conversion loss and good efficiency. At +15 dBm input power, the tripler exhibits a conversion loss of less than 5 dB from 25.5 GHz to 31.5 GHz. Fundamental frequency suppression is better than 35 dB while the second harmonic is suppressed by more than 20 dB across most of the operating band.

❑ Return to main document.