

## 65-145 GHz InP MMIC HEMT medium power amplifiers

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In this paper, we present two MMIC power amplifier designs utilizing InP HEMT technology. The first amplifier covers two full waveguide bands, WR10 (75-110 GHz) and WR8 (90-140 GHz), yielding a maximum output power of at least 25 mW between 65-140 GHz. The second design is optimized for the WR10 waveguide band and provides at least 13 dB of large signal gain over 75-110 GHz, and an output power of 40-50 mW.

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