

# Abstracts

## An 18 GHz Si bipolar mold package prescaler (1998 [RFIC])

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*M. Mineo, M. Okamoto, K. Hosoki and H. Ohba. "An 18 GHz Si bipolar mold package prescaler (1998 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 213-216.*

A mold package static prescaler operating at 18 GHz has been realized. The technology used is the Si bipolar process of which the emitter mask width is 0.8  $\mu$ m. The cut-off frequency and the maximum oscillation frequency are 30 GHz and 40 GHz respectively. The input power range of operations is more than 10 dB in -70 to +95  $\mu$ W/deg/C at 1 to 15 GHz. This prescaler features a +5 V single supply voltage and 190 mW power dissipation.

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