Abstracts

Novel frequency division technique for very low power GaAs monolithic microwave prescalers

T. Ohira and Y. Suzuki. "Novel frequency division technique for very low power GaAs monolithic microwave prescalers." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. I [MWSYM]): 193-196 vol.1.

A novel technique utilizing harmonic modulation and positive feedback is proposed for microwave frequency division. A prototype divide-by-six prescaler is successfully designed and fabricated in an analog-digital GaAs MMIC. Remarkably low DC power operation (only 1.2 V/spl times/6 mA) is achieved at frequencies above 10 GHz. This could pave the way for dry-battery-driven user terminals in multimedia satellite communication systems.

❑ Return to main document.