

# Abstracts

## An Active PsHEMT Sub-Harmonically Pumped Mixer

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*M. Ventresca and M.C. Tsai. "An Active PsHEMT Sub-Harmonically Pumped Mixer." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1641-1644.*

An active Sub-harmonically Pumped (SHP) mixer using PsHEMT devices has been designed, built, and evaluated. Over 5 dB of conversion gain has been demonstrated at X-band. Test results, including conversion gain, noise figure, and IP3 of the active SHP mixer are compared with passive and semi-active SHP mixer configurations.

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