

# Abstracts

## Batch transfer integration of RF microrelays

*V. Milanovic, M. Maharbiz and K.S.J. Pister. "Batch transfer integration of RF microrelays."*

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This letter presents the first implementation of batch-transferred microrelays for a broad range of RF applications and substrates. The transferred relays include two types of electrostatic pull-down structures for series and shunt switching of a CPW. The batch-transfer methodology allows integration of optimized microelectromechanical systems (MEMS) in RF systems on substrates such as sapphire, GaAs, and even CMOS. Gold-to-gold contact series microrelays with insertion loss of  $<0.3$  dB, and isolation better than 15 dB at frequencies from 100 MHz to 50 GHz are demonstrated, as well as shunt switches with  $>45$  dB of isolation and  $<0.3$  dB insertion loss in that frequency range.

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