Abstracts

Monolithic High-Tc Superconducting Phase Shifter at 10 GHz (Dec. 1992 [T-MTT])

J.H. Takemoto-Kobayashi, C.M. Jackson, E.B. Guillory, C. Pettiette-Hall and J.F. Burch. "Monolithic High-Tc Superconducting Phase Shifter at 10 GHz (Dec. 1992 [T-MTT])." 1992 Transactions on Microwave Theory and Techniques 40.12 (Dec. 1992 [T-MTT] (1992 Symposium Issue)): 2339-2344.

We describe a monolithic high temperature super-conductor (HTS) phase shifter integrated into a 10 GHz microstrip line. This is the first demonstration of a nonresonant HTS circuit based on a distributed Josephson inductance approach. We observed phase shifts greater than 150 degrees in resonant structures, and 20 degrees in broadband circuits.

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