

# Abstracts

## HTS diplexer and low noise amplifier rf module

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*G.L. Hey-Shipton, N.O. Fenzi and K.F. Raihn. "HTS diplexer and low noise amplifier rf module." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. 1 [MWSYM]): 295-298.*

The design and performance of a 77 K, thin film HTS diplexer and low noise amplifier subassembly is described. The diplexer circuit is an all planar design with a  $50 \Omega$  match at the filter/diplexer manifold interconnect. The low noise amplifier has very low noise figure (0.2 dB) and simultaneously good input/output VSWR when operated at 77 K.

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