Abstracts

An HTS End-Coupled CPW Filter at 35 GHz

D.G. Swanson, Jr. and R.J. Forse. "An HTS End-Coupled CPW Filter at 35 GHz." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. I [MWSYM]): 199-202.

Using conventional thin-film metalization schemes, the lower limit on practical filter bandwidths is set by the loss of the metalization system. Using HTS technology, we are no longer limited by conductor loss; the new limit is the geometry of the coupling structure between resonators. The limitations of the more conventional capacitive coupled open circuited resonator topologies can be overcome by switching to an inductive coupling scheme between short circuited resonators. This new approach has been tested and proven by fabricating a five resonator, 35 GHz CPW filter that is highly compatible with HTS technology.

❑ Return to main document.