

ABSTRACT

HIGH-TEMPERATURE SUPERCONDUCTOR-DIELECTRIC RESONATOR

The invention is directed to superconducting microwave resonator, to holding devices for those resonators, and to their methods of manufacture. The superconducting microwave resonators employ a superconducting film on substrates positioned on a dielectric. The holding devices include a variety of configurations, such as, a spring loaded device. The superconducting microwave resonators have Q values of as high as microwave resonators formed of Nb, but operate at much higher temperature.

Fig. 1a

