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Temperature Dependence of Gigahertz-Range Ultra-High Frequency Micromechanical Resonators JOSEF-STEFAN WENZLER, TYLER DUNN, DIEGO GUERRA, PRITIRAJ MOHANTY — We report measurements of bulk mode resonators in the ultrahigh frequency range up to 4 GHz. The devices are fabricated with a stack of materials and actuated using piezoelectric technique. Typical dimensions of these resonators are 100 μm in length and width and 10 μm in thickness. The temperature dependence of mode frequencies and quality factor Q are investigated for temperatures ranging from 0.3 K - 400 K.

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