



## MEMS RESONATORS

### New technology based 32kHz device – Ultra-small size 32kHz device

**muRata**  
 INNOVATOR IN ELECTRONICS

The chip scale package (CSP) dimensions are 0.9 mm x 0.6 mm which is more than a 50% reduction in comparison to the smallest quartz crystal tuning fork resonator available today. As no active circuit based compensation is required, the presented resonator offers power and oscillator circuit area savings in comparison to prior MEMS oscillators that require phase locked loop (PLL) compensation.

#### Key Products

- WMRAG32K76CS1C00R0
- WMRAG32K76CS2C00R0
- WMRAG32K76CS3C00R0
- WMRAG32K76CS4C00R0

#### Key Features

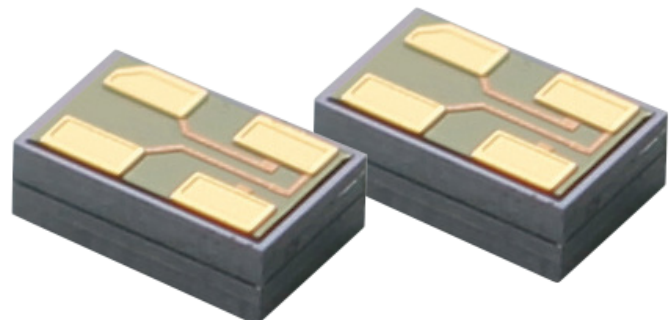
- A world's smallest 32.768kHz MEMS resonator
- Offers less frequency drift at high temperature
- High reliability

#### Key Applications

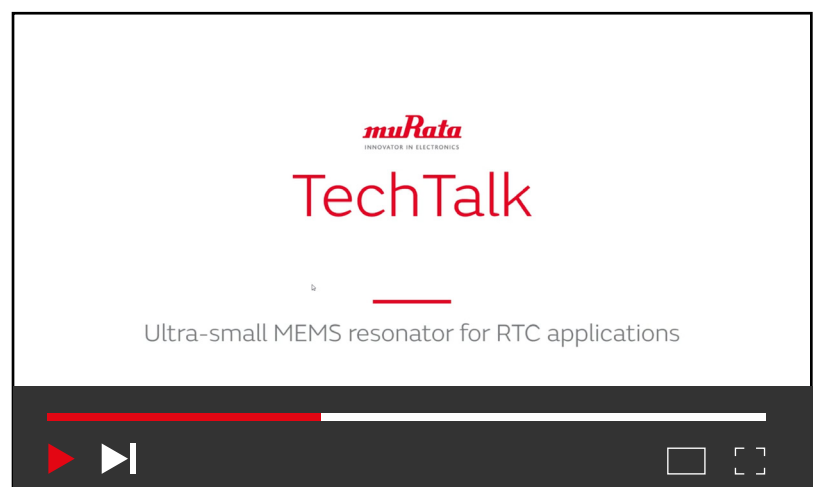
- Biointerfaces and wearables
- Biotechnical manipulation
- Others, but if Virus destroyer and Odor Killer are thinking some of IoT devices, those application are priority 2nd.

#### Key Benefits

- Available for using common oscillation circuit for crystal resonator
- 75k ohm max. ESR with 0.9x0.6mm package



#### Video



For more information get the Whitepaper

„The World's Smallest MEMS Resonator“

