

# Niku™ USTCXO platform



The most advanced technology integration

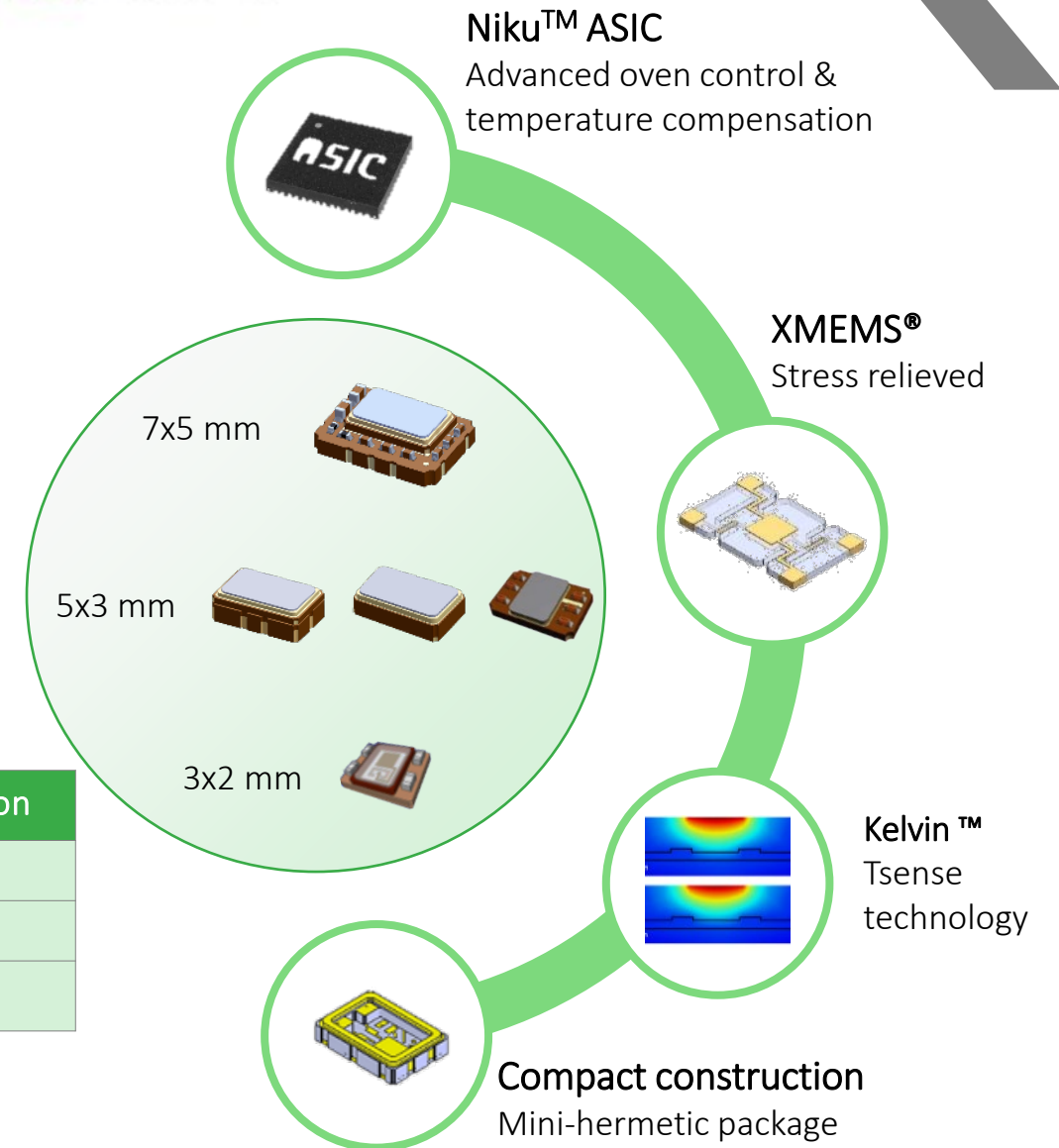
The next generation US-TCXO ASIC platform - Niku™ enables best-in-class US-TCXO performance.

## Specifications:

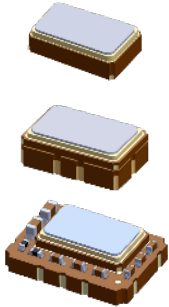
- **Best stability:**  $\pm 100$  ppb (-40 to 105°C)
- **Best-in-class floor noise:** -170 dBc/Hz. RMS phase jitter 50 fs
- **Extended Frequency range:** 10 to 100 MHz

## Schedule:

Technology	Performance	Sampling	Production
RTN5032D	10 to 100 MHz, $\pm 100$ ppb (-55 to 105°C)	Q2 2023	Q2 2024
RTN5032A	10 to 100 MHz, $\pm 100$ ppb (-40 to 105°C)	Q2 2023	Q2 2024
RTN7050A	10 to 100 MHz, $\pm 100$ ppb (-40 to 105°C)	Q2 2023	Q2 2024

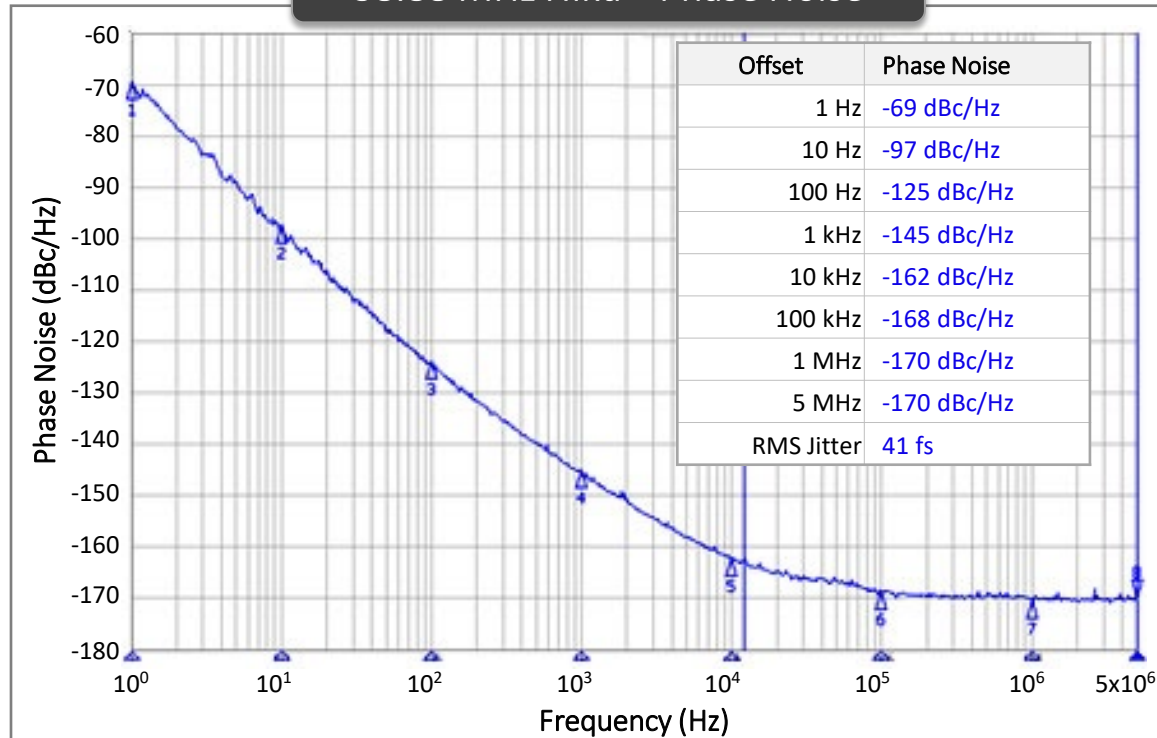


# Highlights – Niku™ USTCXO

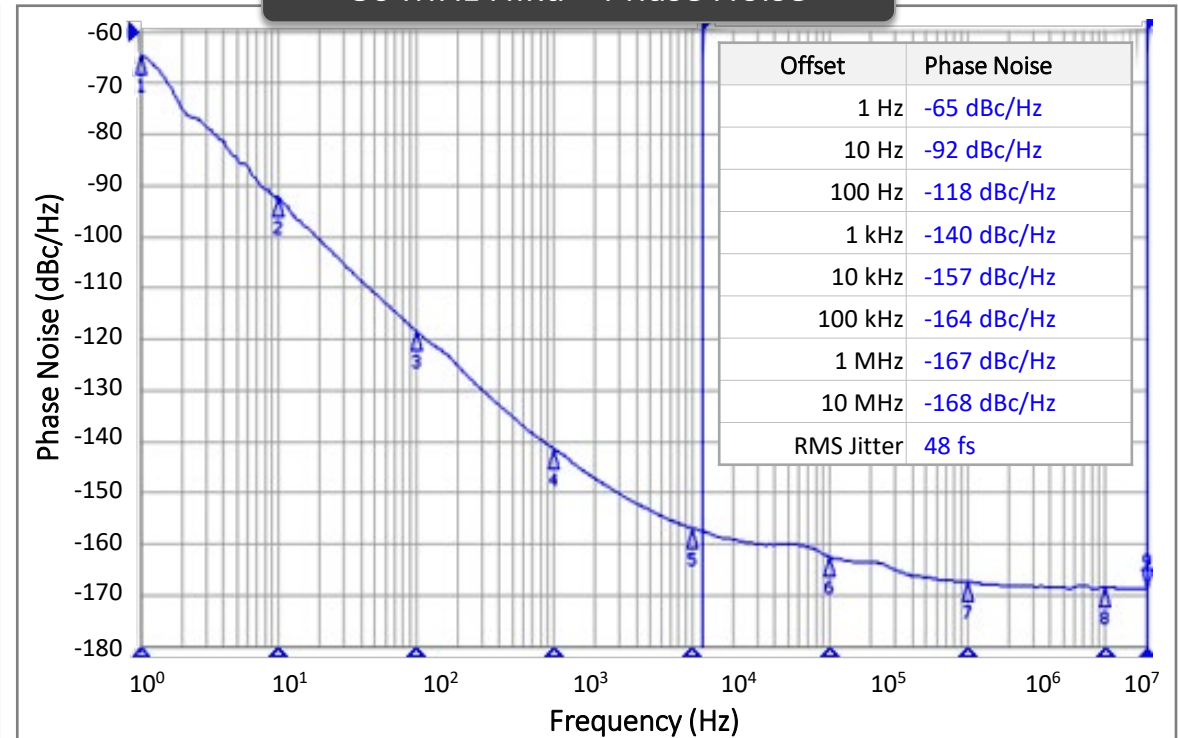


Product	Package	Frequency	Stability	Temperature	Slope ( $\Delta F/\Delta T$ )
RTN5032D	5.0 x 3.2 x 1.2 mm	10 – 100 MHz	$\pm 100$ to 280 ppb	-55 to 105°C	$\pm 10$ to 20 ppb/°C
RTN5032A	5.0 x 3.2 x 1.75 mm	10 – 100 MHz	$\pm 100$ to 280 ppb	-40 to 105°C	$\pm 10$ to 20 ppb/°C
RTN7050A	7.0 x 5.0 x 1.5 mm	10 – 100 MHz	$\pm 100$ to 280 ppb	-40 to 105°C	$\pm 10$ to 20 ppb/°C

38.88 MHz Niku™ Phase Noise



80 MHz Niku™ Phase Noise



# RTN5032D $g$ -Sensitivity ( $\Gamma$ )

