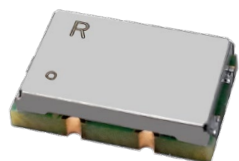


# Product Highlight: Ultra-Low Noise VCXO

rakon



Production

Product	Frequency Range	Stability (All-inclusive)	Key Features
RVX1490U	80 to 160 MHz	$\pm 20$ ppm (-40 to 95°C)	Noise floor < -173 dBc/Hz

14x9 mm XO with Rakon's proprietary circuit design, for best-in-class phase noise performance at higher frequencies.

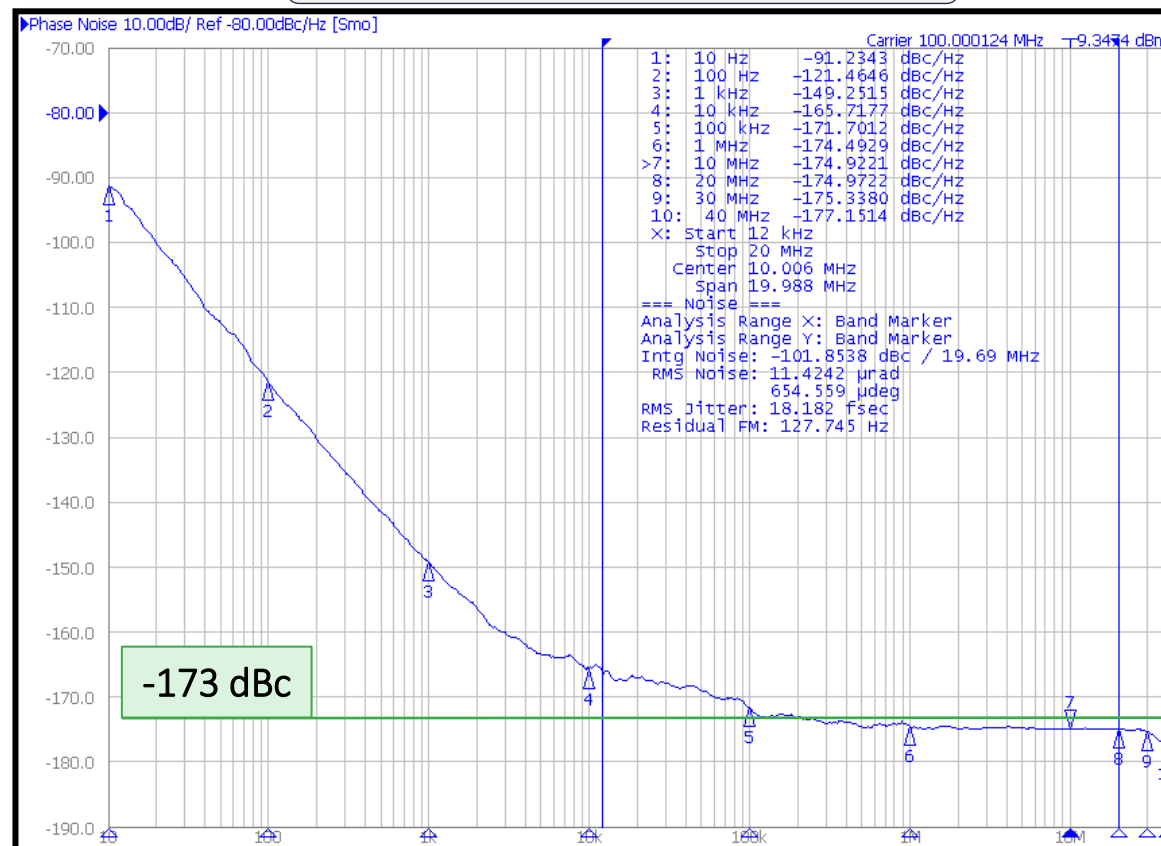
## Applications:

- 5G Small Cells and RRH/RRU
- 5G test equipment
- Skyworks reference design

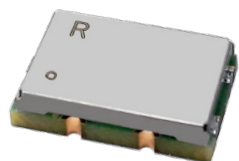
## Key Features:

- All-inclusive stability: <  $\pm 20$  ppm (-40 to 95°C)
- Ultra-Low Noise: < -173 dBc/Hz @ 1 MHz offset
- Acceleration sensitivity: 1ppb/g typ.

100 MHz Ultra-Low Phase Noise



# Product Highlight: Higher Frequency ULN VCXO



Design and Verification

\*Engineering prototypes available

Product	Frequency Range	Stability (All-inclusive)	Key Features
R VX1490U	160 – 250 MHz	±25 ppm (-40 to 95°C)	Noise floor < -173 dBc/Hz

245.76 MHz Ultra-Low Phase Noise

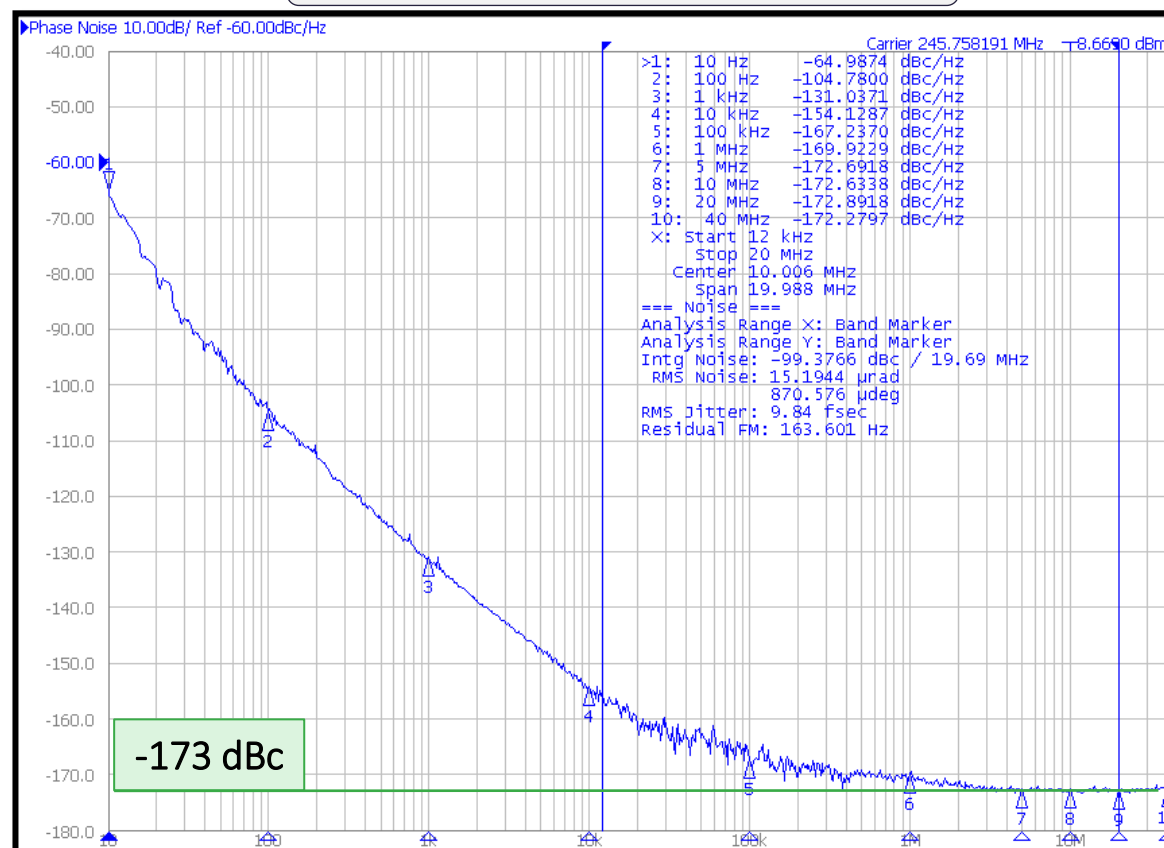
14x9 mm VCXO with Rakon’s proprietary circuit design and XMEMS, high frequency product model extension for best-in-class phase noise performance at higher frequencies.

### Applications:

- 5G+/6G Small Cells and RRH/RRU
- Test equipment

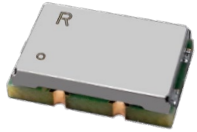
### Key Features:

- Ultra-Low Noise: < -173 dBc/Hz @ 1 MHz offset
- RMS Jitter (12k – 20M): 10 fs @ 245.76MHz
- Acceleration sensitivity: 1ppb/g typ.



# Nova Ultra-Low Noise VCXO & XO

Class leading phase-noise in a small form factor



**RVX7050U**  
Technology R&D

All the performance of the 14x9 VCXO in a 7x5 package. Higher frequencies to be supported by Rakon ASIC

- Target Stability:  $< \pm 25$  ppm (-40 to 95°C)
- Target Floor Noise:  $< -173$  dBc/Hz @ 1 MHz offset
- Extended Frequency range: 80 to 350 MHz

## Schedule:

Technology	Performance	Technology R&D	Design & Verification	Sampling
RVX7050U	80 to 160 MHz	H2 2024	Q2 2025	H1 2025
RVX7050U	160 to 250 MHz	H1 2025	2026	H2 2026
RVX7050U	250 to 350 MHz	2026	2027	H2 2027

