



## VCXO Overview

Rakon has expertise in a broad range of standard performance, high performance and high reliability Voltage Controlled Crystal Oscillators (VCXOs) and Voltage Control Clock Oscillators (VCXOs). The high performance range of VCXOs features low jitter, low phase noise and selectable output frequencies; which make them ideal for applications in the Global Positioning and Telecommunications markets.


The high reliability VCXO range of products are resistant to shock and vibration in harsh environments. The specification profiles make them a great solution for Space applications.

► **VCXO** : [Hi-Rel Space](#) | [Selectable](#) | [Low Noise and Low Jitter](#) | [Standard](#) |

## High Reliability Space VCXO

► **PROFILE:** The high reliability Space VCXO is manufactured in accordance with MIL-PRF-55310 (Class 1, type 2, level S). The high performance VCXO features excellent Absolute Pulling Range (APR) of  $\pm 200$  ppm, good aging characteristics of  $\pm 1$  to  $\pm 5$  ppm per year, low power consumption of 0.1W, compact package size, and a weight of 20g.

► **APPLICATIONS:** Space Synthesizers and Transponders, Frequency Generation Units (FGU), GPS receivers, Down and up converters and Onboard calculators.

MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
TE200		20 x 20 x 13 mm	10 - 40 MHz	$\pm 10$ ppm (0 to 70 °C) $\pm 15$ ppm (-20 to 70 °C)	$\pm 40 - 70$ ppm	Sinewave 50 $\Omega$

רח' אודם 14, ת.ד. 7042 פ"ת • טל: 03-9243352 • פקס: 03-9243358

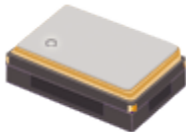
[www.hypertech.co.il](http://www.hypertech.co.il) • [sales@hypertech.co.il](mailto:sales@hypertech.co.il)





## Selectable VCXO

► **APPLICATIONS:** Enterprise networking, Part number consolidation, Software-upgradable systems.

MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
RCV2520Q		2.0 x 2.5 mm	8 - 1500 MHz	±30 - 50 ppm (-40 to 85 °C)	±35 ppm min.	LVC MOS LVPECL LVDS

רח' אודם 14, ת.ד. 7042 פ"ת ▪ טל: 03-9243352 ▪ פקס: 03-9243358

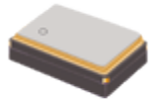
[www.hypertech.co.il](http://www.hypertech.co.il) ▪ [sales@hypertech.co.il](mailto:sales@hypertech.co.il)

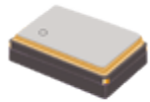







## Low Noise and Low Jitter VCXO

► **APPLICATIONS:** LTE-A Remote Radio Heads / DAS / CPRI, LTE-A Pico Cells / Small Cells, High Speed ADC/DAC/SERDES, Broadcast video, Defense / Military radio systems, Microwave backhaul / point to point.





MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
RVX2520R		2.5 x 2.0 mm	8 - 1500 MHz	±30 - 50 ppm (-40 to 85°C)	±35 min ppm	LVC MOS LVPECL LVDS

MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
<b>RVX2520P</b>		2.5 x 2.0 mm	8 - 1500 MHz	±30 - 50 ppm (-40 to 85°C)	±35 min ppm	LVCMOS LVPECL LVDS
<b>RVX5032M</b>		5.0 x 3.2 mm	1 to 800 MHz	±35 to 50 ppm (-40 to 85°C)	±50 min ppm	LVCMOS LVPECL LVDS
<b>RVX5032P</b>		5.0 x 3.2 mm	8 - 1500 MHz	±30 - 50 ppm (-40 to 85°C)	±50 min ppm	LVCMOS LVPECL LVDS
<b>RVX5032R</b>		5.0 x 3.2 mm	8 - 1500 MHz	±25 - 50 ppm (-40 to 85°C)	±50 min ppm	LVCMOS LVPECL LVDS

רח' אודם 14, ת.ד. 7042 פ"ת ▪ טל: 03-9243352 ▪ פקס: 03-9243358

[www.hypertech.co.il](http://www.hypertech.co.il) ▪ [sales@hypertech.co.il](mailto:sales@hypertech.co.il)



MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
<b>RVX7050M</b>		7.0 x 5.0 mm	1 - 800 MHz	±30 - 50 ppm (-40 to 85 °C)	±50 min ppm	LVC MOS LVPECL LVDS
<b>RVX7050P</b>		7.0 x 5.0 mm	8 - 1500 MHz	±30 to 50 ppm (-40 to 85°C)	±50 min ppm	LVC MOS LVPECL LVDS
<b>RVX7050R</b>		7.0 x 5.0 mm	8 - 1500 MHz	±25 - 50 ppm (-40 to 85°C)	±50 min ppm	LVC MOS LVPECL LVDS
<b>RVX1490M</b>		14.0 x 9.0 mm	50 - 500 MHz	±30 to 50 ppm (-40 to 85°C)	±50 min ppm	LVPECL

רח' אודם 14, ת.ד. 7042 פ"ת ▪ טל: 03-9243352 ▪ פקס: 03-9243358


[www.hypertech.co.il](http://www.hypertech.co.il) ▪ [sales@hypertech.co.il](mailto:sales@hypertech.co.il)





## Standard VCXO


► **APPLICATIONS:** LTE Small Cells, ADC/DAC/SERDES, DSL / cable modem, Radio Communication Systems, General clocking.

MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
RVS5032X		5.0 x 3.2 mm	8 - 1500 MHz	±20 - 100 ppm (-55 to 125 °C)	±50 ppm min.	LVC MOS LVPECL LVDS

רח' אודם 14, ת.ד. 7042 פ"ת ▪ טל: 03-9243352 ▪ פקס: 03-9243358

[www.hypertech.co.il](http://www.hypertech.co.il) ▪ [sales@hypertech.co.il](mailto:sales@hypertech.co.il)



MODEL	IMAGE	PACKAGE	FREQUENCY RANGE	STABILITY (FVST)	ABSOLUTE PULL RANGE	OUTPUT WAVEFORM
RVS7050X		7.0 x 5.0 mm	1 - 800 MHz	±20 - 50 ppm (-40 to 85 °C)	±50 ppm min.	LVC MOS

רח' אודם 14, ת.ד. 7042 פ"ת ▪ טל: 03-9243352 ▪ פקס: 03-9243358

[www.hypertech.co.il](http://www.hypertech.co.il) ▪ [sales@hypertech.co.il](mailto:sales@hypertech.co.il)

