

NEW: (VC)TCXOs STRATUM 3

Stratum 3 compliant short-term and long-term stability
Suitable for demanding environments



- › JTS75HC(V)
- › JTS53HC(V)
- › JTS32CS(V)

NEW: (VC)TCXOs STRATUM 3

Stratum 3 compliant frequency stability for demanding environments

5G and the next generation 6G when launched require strict synchronization within the telecommunication network to sustain the functionalities, especially for eMBB (enhanced mobile broadband) and URLLC (Ultra Reliability and Low Latency Communication).

IEEE-1588v2 protocol and Synchronous Ethernet are two key solutions to deliver the clock accuracy from UTC (Universal Time Coordinated) to each Stratum level in a synchronous hierarchy. The new products perform a compliant holdover capability, ± 0.37 ppm over 24 hours, allowing the clock integrity to be main-

tained for at least as long as the Stratum 3 standard clock requires when the timing signal of master sources are not available.

The new Jauch (VC)TCXO series is suitable for use in high data rate, low latency communications networks such as SONET, SDH, SERDES, GSM, CDMA, 4G and 5G wireless, Gigabit Ethernet, and 10G and 40G systems or IEEE1588 ordinary, boundary and transparent clocks. Further applications are precision GNSS systems as well as GPS disciplined oscillators or test and measurement systems.

KEY FEATURES	JTS75HC & JTS53HC	JTS32CS
Packages [mm]	7050 (7.0 x 5.0 x 2.2) 5030 (5.0 x 3.2 x 1.7)	3225 (3.2 x 2.5 x 0.9)
Frequency Range [MHz]	9.6 - 50.0	9.6 - 50.0
Holdover Stability (for 24 hours)	± 0.37 ppm max.	± 0.37 ppm max.
Free Run Frequency Stability (includes aging over 20 years)	± 4.6 ppm max.	± 4.6 ppm max.
Supply Voltages [V]	3.3 V (all ± 5 %)	1.8V / 2.5V / 2.8V / 3.0V / 3.3V (all ± 5 %)
Best stability and temperature range	± 50 ppb (-40 °C ~ +105 °C)	± 280 ppb (-40 °C ~ +85 °C)
Output	HCMOS	Clipped Sinewave
Flexible frequency tuning option, refer to version	JTS75HCV and JTS53HCV	JTS32CSV
Application	5G Front, Mid & Backhaul ; Critical IoT ; Gigabit Ethernet ; GNSS/GPS ; Point to Point Comms ; Optical Networking ; Remote Radio Heads/Units ; Small Cells (Pico, Femto, Micro, Macro) ; Test & Measurement ; NIC card for PTP and SynE compliances, holdover reference clock, etc.	