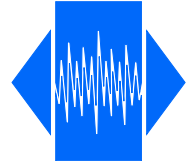


TX6-464H-ST3

High precision analogue compensated
STRATUM III through hole TCXO

QuartzCom
the communications company



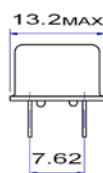
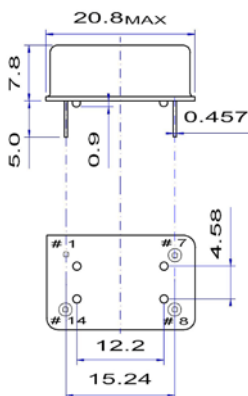
Applications

- synchronization, SyncE, IEEE 1588v2, STRATUM III
- TDM networks, SDH/SONET, wireless backhaul
- Wireless communications, metro carrier Ethernet

Parameter	Specification	
Frequency range	10.0 ~ 128 MHz	
Standard frequencies	10.0, 12.80, 16.384, 19.440, 20.0, 25.0, 32.0, 38.880 & 40.0 MHz	
Frequency stability	$\leq \pm 4.60$ ppm	overall inclusive
Overall inclusive	frequency stability vs. temperature, tolerance ex factory, aging over 20 years, supply & load variation	
vs. temperature	$\leq \pm 0.28$ ppm	-40 ~ +85 °C
vs. aging	$\leq \pm 3.0$ ppm	over 20 years
Holdover stability (¹)	$\leq \pm 0.37$ ppm	over 24 hours
Frequency slope	≤ 0.05 ppm/°C	over operating temperature
Short term stability (ADEV)	$< 1 \times 10^{-10}$	@ $\tau = 1$ sec.
Frequency tolerance ex. factory	$\leq \pm 0.50$ ppm	@ +25 °C
Supply voltage (Vdc)	+2.7 V to +5.5 V	
Supply current	< 15 mA < 30 mA	10 MHz ~ 52 MHz 53 MHz ~ 128 MHz
Output signal	HCMOS	
Output level	$V_{OH} > 0.9 \times V_{dc}$ $V_{OL} < 0.1 \times V_{dc}$	
Output load	15 pF	± 5 %
Tri-state function	pin #1 > 0.7 x Vdc or open pin #1 < 0.3 x Vdc or GND	pin #4 → oscillation pin #4 → high impedance
Jitter (rms) 1 σ	< 1.0 ps	@ Fj = 12 kHz ~ 20 MHz
Operating temperature range	-20 ~ +70 °C -40 ~ +85 °C	indoor use outdoor use
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	500 or 1000 pieces
Customer specifications on request		

(¹) Including: frequency stability vs temperature, supply change of ± 5 % and aging over 24 hours

Environmental	Reference STD.		Test condition
Vibration sinusoidal	IEC 60028-2-6	IEC 60679-1-5.6.7	Test Fc, 30 min per axis 10 Hz – 55 Hz 0.75mm, 55 Hz – 2 kHz 10 g
Shock	IEC 60028-2-27	IEC 60679-1-5.6.8	Test Ea, 3 x per axes 100 g, 6 ms half-sine pulse
Solder ability	IEC 60028-2-20 IEC 60028-2-58	IEC 60679-5.6.3	Test Ta (235 \pm 2) °C Method 1 Test Tb Method 1A, 5s



Pin function

- # 1 not connected or Tristate
- # 2 GND
- # 3 Output
- # 4 Vdc (2.7 ~ 5.5 V)



2011/65/EU RoHS compliant

09 Dec. 13

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ISO 9001
BUREAU VERITAS
Certification

