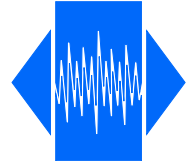


TX7-705C-C-ST3

High precision analogue compensated
STRATUM III SMD TCXO

QuartzCom
the communications company

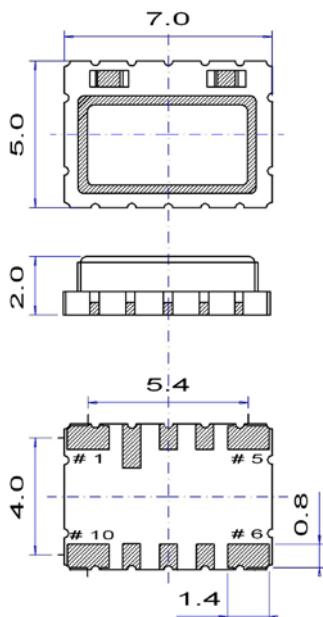


Applications

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

Parameter	Specification	
Frequency range	10.0 ~ 32.0 MHz	
Standard frequencies	10.0, 12.80, 16.384, 19.440, 20.0, 25.0, 26.0 & 32.0 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	< 8 mA	
Output signal	CMOS	
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 #6 → oscillation pin #6 → high impedance
Jitter (rms) 1 σ	< 0.5 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

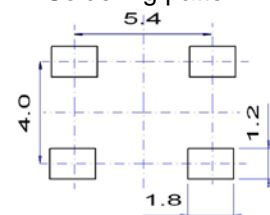


Pin function

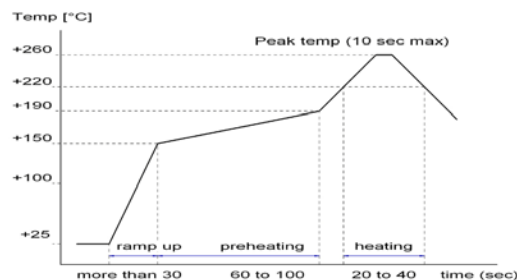
- # 1 GND or Tri-state
- # 5 GND
- # 6 Output
- # 10 Vdc

All other pins are not connected

Soldering pattern



IR reflow soldering temperature



Reflow conditions per JEDEC J-STD-020, 260 °C maximum

2011/65/EU RoHS compliant

08 Dec. 13

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