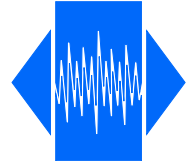


TX7-503C-SQ-ST3

High precision analogue compensated
STRATUM III SMD TCXO

QuartzCom
the communications company

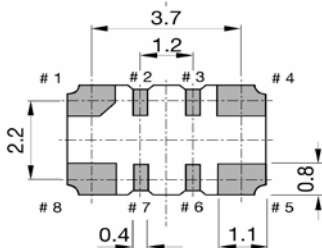
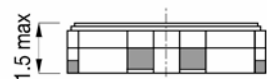
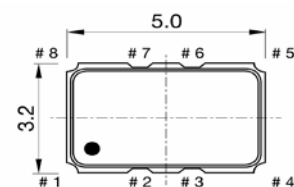


Applications

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

Parameter	Specification	
Frequency range	10.0 ~ 52.0 MHz	
Standard frequencies	10.0, 12.80, 16.384, 19.44, 20.0, 25.0, 32.0, 38.880 & 40.0 MHz	
Frequency stability	≤ ±4.60 ppm	overall inclusive
Overall inclusive	frequency stability vs. temperature, tolerance ex factory, aging over 20 years, supply & load variation	
vs. temperature	≤ ±0.28 ppm	-40 ~ +85 °C
vs. aging	≤ ±3.0 ppm	over 20 years
Holdover stability (1)	≤ ±0.37 ppm	over 24 hours
Frequency slope	≤ 0.05 ppm/°C	over operating temperature
Short term stability (ADEV)	< 1 x 10 ⁻¹⁰	@ τ = 1 sec.
Frequency tolerance ex. factory	≤ ±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 x Vdc V _{OL} < 0.1 x Vdc	
Output load	15 pF	±5 %
Jitter (rms) 1σ	< 0.5 ps	@ Fj = 12 kHz ~ 20 MHz
Tri-state function	pin #6 > 0.7 x Vdc or open pin #6 < 0.3 x Vdc or GND	pin #5 → oscillation pin #5 → high impedance
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		

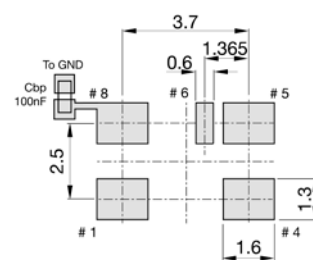
(1) Including: frequency stability vs temperature, supply change of ±5 % and aging over 24 hours



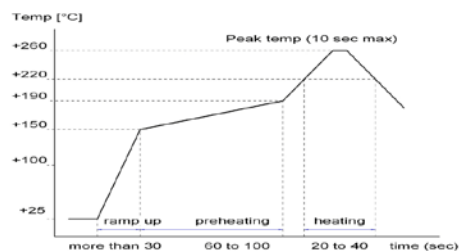
Pin function

- # 1 do not connect
- # 2 do not connect
- # 3 not connected
- # 4 GND
- # 5 Output
- # 6 Tri-state or NC
- # 7 do not connect
- # 8 Vdc (2.7 V ~ 5.0 V)

Solder pattern



IR reflow soldering temperature



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

2011/65/EU RoHS compliant

20 Dec. 13

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ISO 9001
BUREAU VERITAS
Certification

