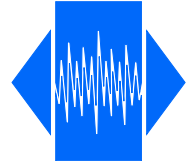


# TX7-705-TQ-ST3

High precision analogue compensated  
STRATUM III SMD TCXO

QuartzCom  
the communications company

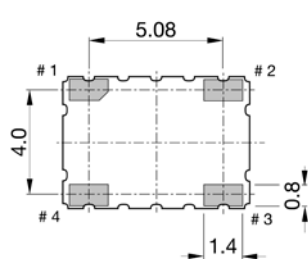
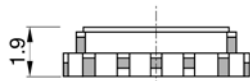
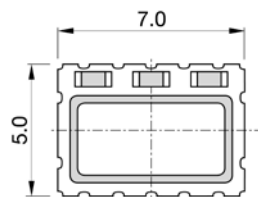


## Features

- Applications: transmission, TDM networks, SDH, SONET, wireless communications, IEEE 1588v2, SyncE, STRATUM III, wireless backhaul, metro carrier Ethernet, femtocells, picocells
- Holdover stability:  $\pm 0.37$  ppm over 24 h
- Overall stability:  $\pm 4.60$  ppm including 20 years aging
- Output signal: Clipped sine wave or CMOS

Parameter	Specification	
Frequency range	9.83040 ~ 52.0 MHz	
Standard frequencies	10.0, 12.80, 16.3840, 19.440, 20.0, 25.0, 26.0, 32.0, 40.0 & 50.0 MHz	
Frequency stability	$\leq \pm 4.60$ ppm	overall inclusive
Overall inclusive	frequency stability vs. temperature, tolerance, aging over 20 years, supply & load variation	
vs. temperature	$\leq \pm 0.28$ ppm	-40 ~ +85 °C
vs. aging	$\leq \pm 3.5$ ppm	20 years
Short term aging, G.813 Option 1	$\leq \pm 0.01$ ppm/day (Note #3)	@ +25 °C $\pm 1$ °C
Holdover stability <sup>(1)</sup>	$\leq \pm 0.37$ ppm	over 24 hours
Frequency tolerance ex. Factory (preset)	$\leq \pm 0.50$ ppm	@ +25 °C
Supply voltage	+3.3 V or +5.0 V	
Supply current	< 8 mA	
Output signal	<b>clipped sine wave</b>	<b>CMOS</b>
Output level	> 0.8 V <sub>p-p</sub>	V <sub>OH</sub> > 0.9 x V <sub>dcc</sub> / V <sub>OL</sub> < 0.1 x V <sub>dcc</sub>
Output load	10 k $\Omega$ // 10 pF	15 pF
Phase noise @ 20 MHz carrier frequency	-140 dBc/Hz	@ 10 kHz
Operating temperature range	-20 ~ +70 °C	indoor use
	-40 ~ +85 °C	outdoor use
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	500 or 1'000 pieces
Customer specifications on request		

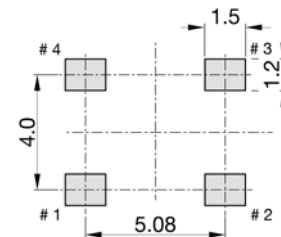
<sup>(1)</sup> Including: frequency stability, vs temperature, supply change of  $\pm 5$  % and aging over 24 hours



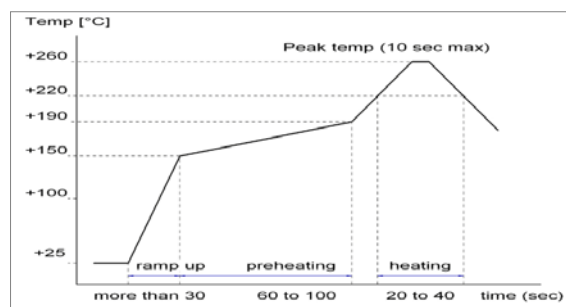
## Pin function

- # 1 do not connect
- # 2 GND
- # 3 Output
- # 4 V<sub>dcc</sub>

## Solder pattern



## IR reflow soldering temperature



2011/65/EU RoHS compliant

16 May. 14

QuartzCom AG  
Bischmattstrasse 11  
CH 2544 Bettlach  
Switzerland

Fax +41 32 644 24 05  
Tel +41 32 644 24 00  
E-Mail sales@quartzcom.com  
[www.quartzcom.com](http://www.quartzcom.com)

ISO 9001  
BUREAU VERITAS  
Certification

