

VT7-705-C

SMD VC-TCXO
Clipped sine wave

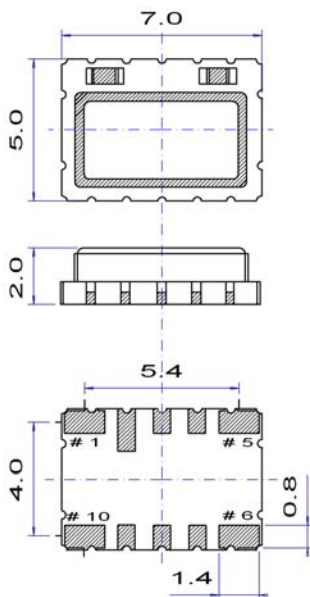
QuartzCom
the communications company



Features

- Applications: wireless communications (WiMAX), micro base station, instrumentation
- Output signal clipped sine wave
- Frequency range up to 40 MHz
- Low phase noise

Parameter	Specification	
Frequency range	10 ~ 40 MHz	
Standard frequencies	10.00, 12.80, 13.00, 16.384, 19.20, 20.00, 25.00, 26.00 & 40.00 MHz	
Frequency stability:		
vs. temperature	≤ ±0.5 ~ ±2.5 ppm	
vs. supply change	≤ ±0.10 ppm	±5 %
vs. load change	≤ ±0.10 ppm	±5 %
vs. aging	≤ ±1.0 ppm	1 st year
Frequency tolerance ex. factory	≤ ±0.5 ppm	@ +25 °C
Supply voltage	+2.8 ~ +5.0 V	
Supply current	1.5 ~ 4 mA	
Output signal	> 0.8 Vp-p	clipped sine wave
Output load	10 kΩ // 10 pF	
Frequency pulling range	±5 ~ ±10 ppm	
Voltage control	+1.5 V	±1.0 V
Phase noise @ 12.8 MHz carrier frequency	-120 dBc/Hz -140 dBc/Hz -148 dBc/Hz	@ 100 Hz @ 1 kHz @ 10 kHz
Operating temperature range	-20 ~ +70 °C -40 ~ +85 °C	commercial application industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	500 or 1'000 pieces
Customer specifications on request		

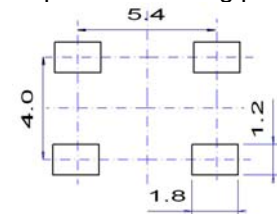


Pin function

- # 1 Vc Voltage control
- # 5 GND
- # 6 Output
- # 10 Vdc

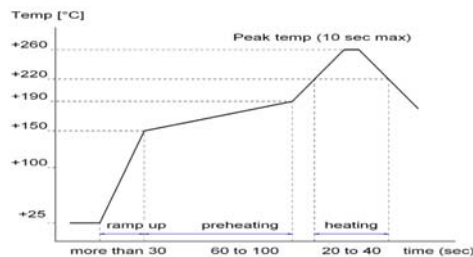
All other pins are not connected

Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

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ISO 9001
BUREAU VERITAS
Certification

