

HCMOS 7 x 5 x 2.3mm SMD, kHz Range

- Miniature 7 x 5 x 2.3mm SMD package
- Frequency range: 20.0kHz to 52.7kHz including 32.768kHz
- Supply voltage 3.3 or 5.0 Volts
- Frequency stability from ±1ppm over -30 to +75°C
- RoHS compliant

DESCRIPTION

EM572T series TCXOs are packaged in a miniature 4 pad ceramic SMD package. With squarewave (CMOS) output, tolerances are available from $\pm 1.0 ppm$ over -30° to +75°C. The part has a $0.01 \mu F$ decoupling capacitor built in.

SPECIFICATION

Product Series Code TCXO: EM572T VCTCXO: VEM572T 20.0kHz to 52.7kHz Frequency Range: Standard Frequency: 32.768kHz Squarewave, HCMOS Output Waveform: Initial Calibration Tolerance: $<\pm2.0$ ppm at +25° ±2 °C **Operating Temperature Range:** See table Frequency Stability vs. Ageing: ±1.0 ppm max. first year vs. Voltage Change: ±0.2 ppm max. ±5% change vs. Load Change: ±0.2 ppm max. ±10% change vs. Reflow (SMD type): ±1.0ppm max. for one reflow (Measured after 24 hours) Supply Voltage: +2.8, +3.0, +3.3 or +5.0V (See table) **Output Logic Levels:** Logic High: 90% Vdd min. Logic Low: 10% Vdd max. Rise and Fall Times: 10ns max. 50% ± 10% standard, **Duty Cycle:** 50%±5% option Start-up Time: 10ms max. See table below **Current Consumption:** Output Load: 15pF

FREQUENCY STABILITY

Storage Temperature:

Frequency Stability (ppm)		±0.5	±1.0	±1.5	±2.0	±2.5
Temperature Range (°C)	0 ~ +50	✓	✓	✓	✓	✓
	-10 ~ +60	✓	✓	✓	✓	✓
	-20 ~ +70	✓	✓	✓	✓	✓
	-30 ~ +75	ASK	✓	✓	✓	STD
	-40 ~ +85	х	ASK	✓	✓	✓

-55~+125°C

 \checkmark = available, x = not available, ASK = call Tech. Sales STD = Standard

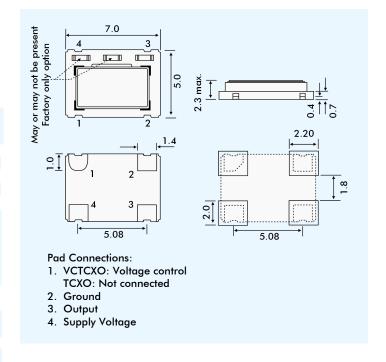
CURRENT CONSUMPTION

Frequency	+3.3 V		
32.768kHz	8.0mA		
50kHz	12mA		



RoHS

EM572T - OUTLINES AND DIMENSIONS



VEM572T VOLTAGE CONTROL SPECIFICATION

Control Voltage: Standard = $+1.5\pm1.0$ Volts for all input

voltages. (Contact technical sales if +2.5±2.0 Volts is required.)

Frequency Deviation: ± 5 ppm (Vcon = $+1.5\pm1.0$ V)

Slope Polarity: Positive (increase of control voltage increases

output frequency.)

Input Impedance: $1M\Omega$ minimum Modulation Bandwidth: 20kHz minimum Linearity: $\pm 10\%$ maximum

PART NUMBERING PROCEDURE

