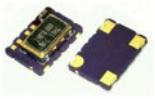
EUROQUARTZ

EMV572T TCXO

CMOS 7 x 5 x 2.5mm SMD, 'V' Group 27.0MHz to 200.0MHz

- **Miniature 7 x 5 x 2.3mm SMD package**
- **Wide frequency range: 27.0MHz to 200.0MHz**
- **Supply voltage 3.3 Volts**
- **Frequency stability from ±1ppm over -30 to +75°C**
- **RoHS compliant**



RoHS

DESCRIPTION

EMV572T series TCXOs are packaged in a miniature 4 pad ceramic SMD package. With squarewave (CMOS) output, tolerances are available from ±1.0ppm over -30° to +75°C. The part has a 0.01µF decoupling capacitor built in.

SPECIFICATION

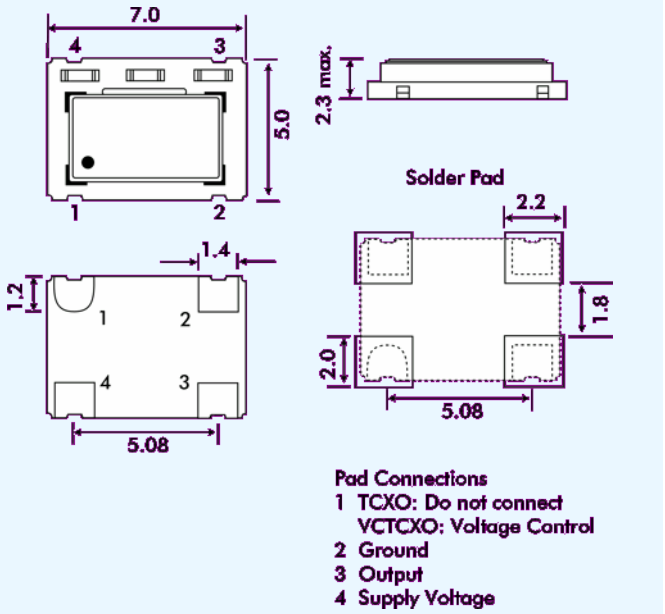
Product Series Code	
TCXO:	EMV572T
VCTCXO:	VEMV572T
Frequency Range:	27.0MHz to 200.0MHz
Output Waveform:	Squarewave, HCMOS
Initial Calibration Tolerance:	<±2.0ppm at +25°±2°C
Standard Frequencies:	30.0, 32.768, 38.880, 40.0, 50.0, 54.0, 64.0, 65.536, 77.76, 80.0, 128.0, 160.0 and 200.0MHz (*Partial list*)
Operating Temperature Range:	*See table*
Frequency Stability	
vs. Ageing:	±1.0 ppm max. first year
vs. Voltage Change:	±0.3 ppm max. ±5% change
vs. Load Change:	±0.3 ppm max. ±10% change
vs. Reflow (SMD type):	±1.0ppm max. for one reflow (*Measured after 24 hours*)
Supply Voltage:	+3.3 Volts
Output Logic Levels:	Logic High: 90% Vdd min. Logic Low: 10% Vdd max.
Current Consumption:	40mA maximum
Rise and Fall Times:	10ns typical
Duty Cycle:	50%±10% standard,
Start-up Time:	5ms typical, 10ms max.
Current Consumption:	*See table below*
Output Load:	15pF
Storage Temperature:	-55~+125°C

FREQUENCY STABILITY

Stability (ppm)		±0.5	±1.0	±1.5	±2.0	±2.5	±3.0
Temp. Range (°C)	0 ~ +50	✓	✓	✓	✓	✓	✓
	-10 ~ +60	ASK	✓	✓	✓	✓	✓
	-20 ~ +70	X	✓	✓	✓	✓	✓
	-30 ~ +75	X	✓	✓	✓	✓	✓
	-40 ~ +85	X	X	X	ASK	ASK	✓

✓ = available, x = not available, ASK = call Technical Sales

EMV57T - OUTLINES AND DIMENSIONS



VEMV572T VOLTAGE CONTROL SPECIFICATION

Control Voltage:	Standard = +1.5±1.0Volts for all input voltages. *(Contact technical sales if +2.5±2.0 Volts is required.)*
Frequency Deviation:	±6.0 ppm min. (Vcon = +4.5V±1.0V)
Slope Polarity:	Positive *(increase of control voltage increases output frequency.)*
Input Impedance:	2MΩ minimum
Modulation Bandwidth:	25kHz minimum

SSB PHASE NOISE at 25°C

Offset		10Hz	100Hz	1kHz	10kHz	100kHz
Part = EMV57T33	at 77.760Mhz (dBc/Hz)	-80	-110	-135	-130	-132
	at 155.520Mhz (dBc/Hz)	-80	-110	-125	-120	-125

PART NUMBERING SCHEDULE

Example: **EMV572T33-200.00-2.5/-30+75**

Series Description
TCXO = EMV572T
VCTCXO = VEMV572T
Supply Voltage
33 = 3.3 VDC
Frequency (MHz)
Stability over OTR (±ppm)
Operating Temperature Range (OTR) (°C)
Lower and upper limits

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