

EM57K ULTRA-LOW CURRENT TCXO

HCMOS 7 x 5 x 2.5mm SMD

- Highly stable CMOS TCXO with ultra-low supply current
- Miniaturized 7 x 5mm SMD package
- Consumes less than 4mA at 20.0MHz with 3.3V supply

EM57K TCXOs and VCTCXOs are packaged in a 7 x 5 x 2.5mm ceramic SMD package. The part offers the stability of a TCXO and the

design convenience of HCMOS output with ultra-low current

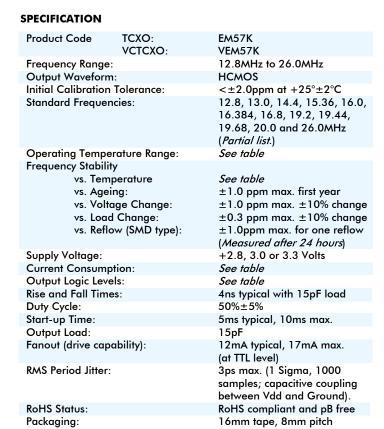
DESCRIPTION

consumption.

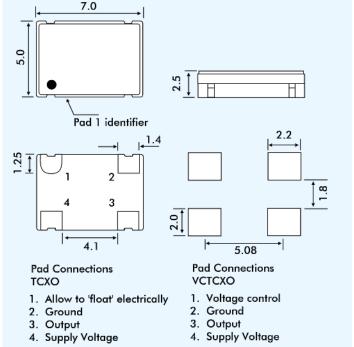
Low phase noise **RoHS** compliant

OUTLINES AND DIMENSIONS





1000 pieces per reel.



VEM57K VOLTAGE CONTROL SPECIFICATION

view. Count clockwise from bottom view.

Control Voltage: Slope Polarity: increases	±5 to ±12ppm for +1.5 ±1.5 Volts Positive (increase of control voltage
mercuses	
	output frequency)

Chamfered pad is Pad 1. Count counter-clockwise when looking at top

CURRENT CONSUMPTION

Frequency	Input Voltage				
Trequency	+2.8V	+3.0V	+3.3V		
12.800MHz	2.3mA typ.	2.4mA typ.	2.6mA typ.		
13.000MHz	2.5mA typ.	2.6mA typ.	2.8mA typ.		
14.400MHz	2.6mA typ.	2.8mA typ.	3.1mA typ.		
16.384MHz	2.8mA typ.	3.0mA typ.	3.2mA typ.		
19.200MHz	3.2mA typ.	3.3mA typ.	3.6mA typ.		
19.440MHz	3.2mA typ.	3.4mA typ.	3.7mA typ.		
20.000MHz	3.2mA typ.	3.4mA typ.	3.7mA typ.		
26.000MHz	3.6mA typ.	3.8mA typ.	4.1mA typ.		

SSB PHASE NOISE at 25°C

0.01μF capacitor is built-in.

Of	ffset	100Hz	1kHz	10kHz	100kHz	1MHz
Part = VEM57K30	at 13.000MHz (dBc/Hz)	-80	-110	-130	-135	-142

FREQUENCY STABILITY OVER TEMPERATURE

Stability	(ppm)	±1.0	±2.0	±2.5	±3.0	±4.0	±5.0
Temp. Range (°C)	0 ~ +50	✓	✓	✓	✓	✓	✓
	-10 ~ +60	ASK	✓	✓	✓	✓	✓
	-20 ~ +70	Х	✓	✓	✓	✓	✓
	-30 ~ +75	Х	√	✓	√	√	✓
	-40 ~ +85	Х	Х	Х	ASK	ASK	✓

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

PART NUMBER FORMAT

