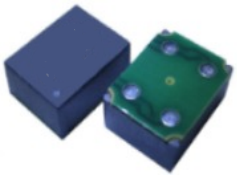
EOC51T & EOC51S OCXOs 5.00MHz to 40.00MHz

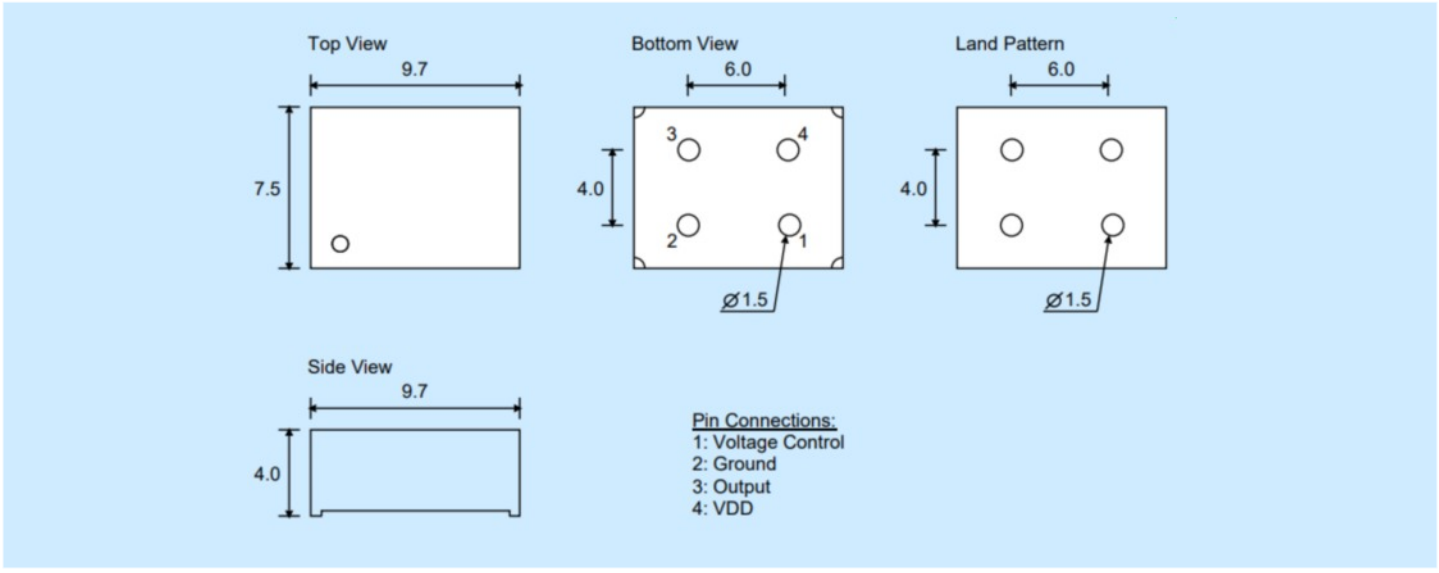
- **9.7 x 7.5 x 4.0mm package**
- **Surface mount package**
- **+3.3V, +5.0V supply voltage options**
- **Clipped sine and square wave output**
- **Electronic Frequency Tuning as standard**



GENERAL SPECIFICATION

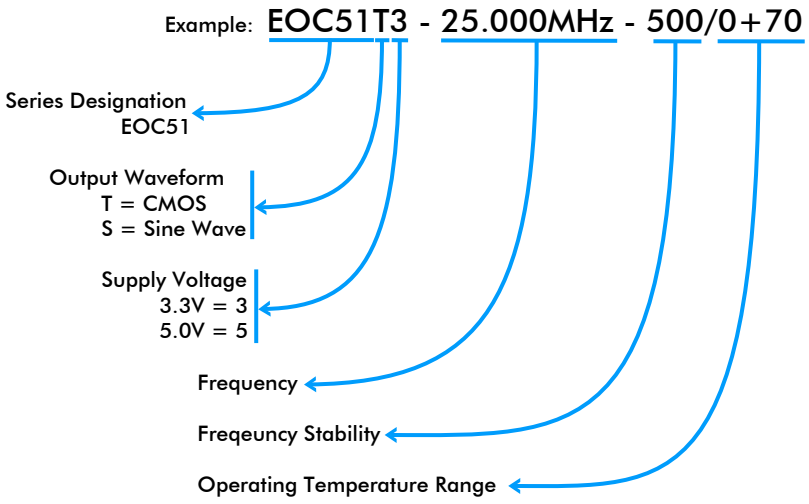
Output Waveform		Square Wave		Clipped Sine Wave	
Supply Voltage		+3.3V±5%	+5.0V±5%	+3.3V±5%	+5.0V±5%
Frequency Range		5.0 ~ 40.0MHz		5.0 ~ 40.0MHz	
Initial Calibration Tolerance		±500ppb (max.)		±500ppb (max.)	
		Vcon = +1.65V	Vcon = +2.5V	Vcon = +1.65V	Vcon = +2.5V
Crystal Cut		IT-cut			
Frequency Stability	vs Temperature	±10ppb max. over -30°C to +70°C			
		±20ppb max. over -40°C to 85°C			
	vs Voltage Change	±10ppb max. for ±5% voltage change			
	vs Warm-up Time (+25°C)	5 min. max., within ±0.1ppm of its reference frequency			
	vs Aging	±3ppb max. after 30 days, ±600ppb max. first year, ±3ppm max. over 10 years			
Voltage Control (EFC)	Frequency Deviation Range	>±5ppm reference to Fo at +25°C and over temp. range			
	Control Voltage Range	+1.65±1.65V		+2.5±2.5V	
	Transfer Function	Positive: Increasing control voltage increases output frequency			
	Input Impedance	100k Ω min.			
	EFC Linearity	±10% max.			
Power Dissipation (at +25°C)		0.4W max. at steady state; 350mA max. at turn-on			
Output	Load	15pF		10kΩ // 10pF±10%	
	Output Logic High	+2.4V min.	+4.5V min.	---	
	Output Logic Low	+0.4V max.		---	
	Duty Cycle	50±5% at +1.65V		---	
	Rise and Fall Time	7nsec. max (20% ~ 80% of waveform)		---	
	Output Voltage Level (p-p)	---	---	0.8V min.	
	Phase Noise Offset (typ. at 10.0MHz)	10Hz	100Hz	1kHz	10kHz
		-98dBc	-126dBc	-145dBc	-152dBc

PACKAGE OUTLINE



EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE
Tel: +44 (0)1460 230000 info@euroquartz.co.uk www.euroquartz.co.uk

ORDERING/PART NUMBER GENERATION



EUROQUARTZ LIMITED Blacknell Lane CREWKERNE Somerset UK TA18 7HE
Tel: +44 (0)1460 230000 info@euroquartz.co.uk www.euroquartz.co.uk