

5.0 x 3.2mm SMD TCXO

9.6MHz to 30.0MHz

- Miniature 5.0 x 3.2 x 1.5mm SMD package
- Frequency range: 9.6MHz to 30.0MHz
- Available with either CMOS or clipped sinewave output
- May be ordered as TCXO or Voltage-Controlled TCXO
- Supply voltage 3.3 Volts

DESCRIPTION

EQ5032 TCXOs are packaged in a miniature 4 pad ceramic, $5.0 \, x$ 3.2mm outline SMD package. The part is available as a TCXO or as a voltage-controlled TCXO (VCTCXO). Output may be specified as either clipped sinewave or CMOS. The part has excellent phase nose characteristics and provides a stable source of clock signals over a wide operating temperature range.

SPECIFICATION

	Product Code:	EQ5032
	Frequency Range:	9.6MHz to 30.0MHz
	Frequency Stability	
	vs. Temperature Range:	±2.0 or ±2.5ppm
	vs. Supply Voltage (±5%):	±0.3ppm maximum
	vs. Load Change (±5%):	±0.3ppm maximum
	vs. Ageing (at 25°C):	±1.0ppm maximum
	Intitial Frequency Tolerance:	±1.5ppm maximum
	Operating Temperature Range:	-30° to +80°C
	Storage Temperature Range:	-40° to +90°C
	Supply Voltage:	+2.4V min., +3.6V max.
	Current Consumption	

CMOS: 6.0mA maximum
Clipped Sinewave: 2.0mA maximum

Output Voltage Level

CMOS: 80% Vdd minimum Clipped Sinewave: 0.8V p-p minimum

Output Load

CMOS: $1k\Omega//15pF$ Clipped Sinewave: $10k\Omega//10pF$

Dynamic Behaviour

-20° to +80°C: ±0.30ppm/°C -30° to -20°C: ±1.0ppm/°C

Start-up Time: 3.0ms max. to 90% Vdd

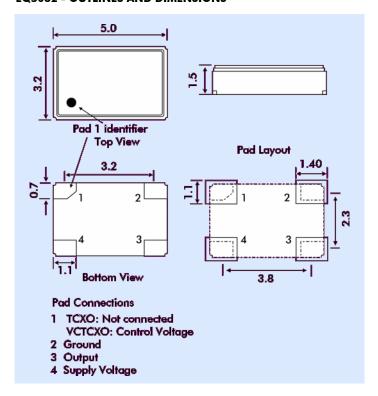
Duty Cycle: 60/40% Harmonics: -9dBc maximum

SSB PHASE NOISE at 25°C

Offset	10Hz	100Hz	1kHz	10kHz
EQ5032 (dBc/Hz)	-86	-115	-138	-146



EQ5032 - OUTLINES AND DIMENSIONS



EQ5032 VOLTAGE CONTROL SPECIFICATION

Control Voltage: Nominal 50% Vdd (0V min, Vdd max.)
Frequency Deviation: ±5.0ppm min., ±15ppm max.

PART NUMBERS

Example: EQ5032-S-V10-20.000-2.5/-30+80

