

FEATURES

- Ultra-miniature 3.2 x 2.5 x 0.95mm package
- Frequency Range 0.5MHz to 54.0MHz
- Tristate (Enable/Disable) function as standard
- Supply voltage 1.0, 1.2, 1.8, 2.5, 3.3 or 5.0 Volts

DESCRIPTION

XO32 ultra-miniature oscillators consist of a TTL/CMOS-compatible hybrid circuit and a miniature quartz crystal packaged in a low-profile, industry-standard ceramic package. The package provides a fully specified clock oscillator with a very small footprint.

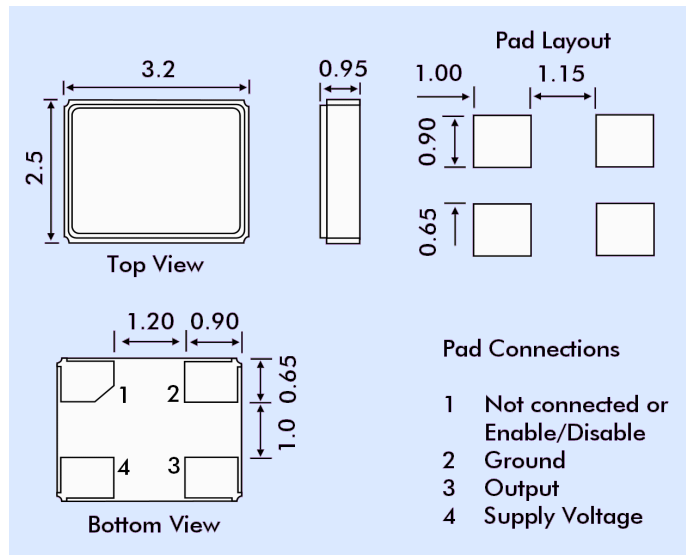
SPECIFICATION

Frequency Range:	0.5MHz to 54.0MHz
Supply Voltage:	1.0, 1.2, 1.8, 2.5, 3.3Volts ±5% or 5.0 Volts ±10%
Output Logic:	HCMOS/LSTTL
Frequency Stability	
0° to +50°C:	from ±10ppm
-20° to +70°C:	from ±15ppm
-40 to +85°C:	from ±25ppm
-55° to +105°C:	from ±100ppm
Rise/Fall Time:	2ns typical. (Frequency dependant)
Output Voltage:	
HIGH '1':	90%Vdd minimum
LOW '0':	10%Vdd maximum
Output Load	15pF (30pF and 50pF available for 3.3V and 5.0V supply)
Duty Cycle:	50%±5% typical
Supply Current:	See table
Operating Temperature	
Commercial:	0° to +70°C
Industrial:	-40° to +85°C
Storage Temperature:	-55 to +105°C
Start-up Time:	10ms max.
Ageing:	±5ppm max. in first year at 25°C
Phase Jitter RMS:	10ps typical
Tristate Function (Pad 1):	Enable/Disable function is standard for XO32. Output (Pad 3) is active if Pad 1 is not connected or Pad 1 is 'HIGH'. Output is high impedance when 'LOW' or GROUND is applied to Pad 1.
Packaging:	8mm tape, 178mm reel, 1k pieces

Note: Parameters are measured at ambient temperature of 25°C, supply voltage as stated and a load of 15pF



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SOLDER TEMPERATURE PROFILE

