FEATURES

- Industry-standard 1/2 size DIP for compatibility
- Low ageing
- Double hermetically sealed package
- Full MILITARY testing available
- Choice of 5.0V or 3.3V supply voltage
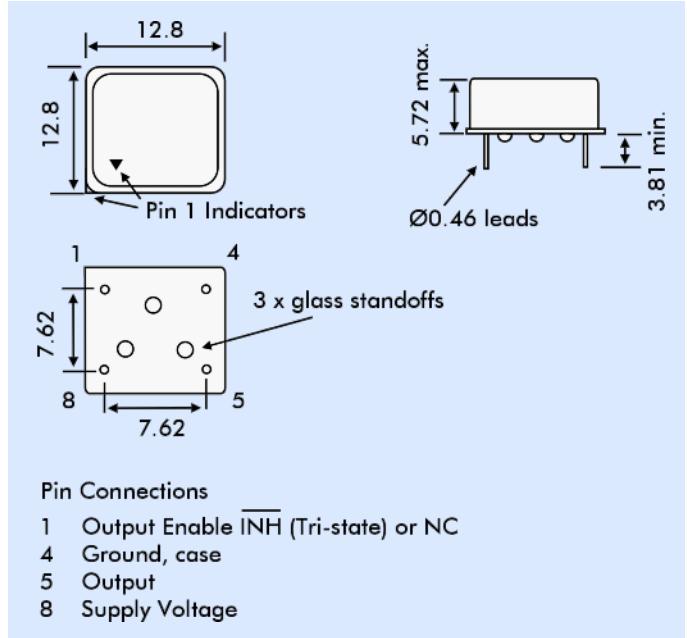- Optional Enable/Disable or Tristate function

DESCRIPTION

The LXOM-AT oscillator is designed as a highly reliable crystal oscillator able to withstand use in sever environments. The double hermetically sealed package provides a permanently precise control of ouput frequency.

SPECIFICATION

Specifications are typical at 25°C unless otherwise indicated. Tighter specifications are available, contact Euroquartz technical sales.

Supply Voltage:	+5.0V±5% or +3.3V±5%
Calibration Tolerance	
Code 'A':	±0.01% (±100ppm)
Code 'B':	±0.03%
Code 'C':	±0.10%
Frequency Stability	
0° to +50°C:	from ±5 to ±30ppm
-10° to +70°C:	from ±10 to ±50ppm
-40° to +85°C:	from ±20 to ±100ppm
-55° to +125°C:	from ±30 to ±100ppm
Supply Current:	from 4mA to 60mA (frequency dependent)
Output Levels 5V (CMOS)	
VOL:	0.5V max.
VOH:	4.5V max.
Start-up Time:	5ms max.
Rise/Fall Time:	6ns typical, 10ns maximum
Duty Cycle:	60/40%
Ageing first year:	±5ppm max.
Shock Survival:	1,000g peak 1.0ms, ½ sine
Vibration Survival:	10g rms 10~2000Hz random
Operating Temperature Ranges	
Commercial (C):	-10° to +70°C
Industrial (I):	-40° to +85°C
Military (M):	-55° to +125°C

ABSOLUTE MAXIMUM RATINGS

Supply Voltage:	-0.3V to +7.0V
Storage Temperature:	-55° to +125°C

OUTLINE & DIMENSIONS

Pin 1 Indicators
12.8
5.72 max.
3.81 min.
Ø0.46 leads
7.62
7.62
3 x glass standoffs

Pin Connections
1 Output Enable $\overline{INH}$ (Tri-state) or NC
4 Ground, case
5 Output
8 Supply Voltage

ENABLE/DISABLE OPTIONS (E/T/N)

The LXOM-AT oscillator has these pin options available:
'E' (Enable), when pin 1 is LOW (0), the oscillator stops oscillating.
'T' (Tri-state), when pin 1 is LOW, the oscillator continues to run, hoever, the output buffer amplifier stops functioning and output is in a high impedance (Z) state.

ENABLE vs TRI-STATE

	Enable	Tri-State
Current consumption when Pin 1 is low	Low	High
Output recovery delay when Pin 1 changes from low to high	Delayed	Immediate

When Pin 1 is allowed to float it is held by an internal pull-up resistor

PACKAGING

LXOM-AT oscillators are supplied tube packed.

HOW TO ORDER LXOM-AT OSCILLATORS

LXOM-AT	S	10	T	32MHz	(100	/	100	/	200	/	M)

S if special or custom design (Blank if standard)	2 = 2LSTTL loads 8 = 8 LSTTL loads 10 = 10 LSTTL loads	E = Enable T = Tri-state N = Neither	Frequency	Calibration Tolerance at 25°C (A) (B) (C)	Frequency Stability over temperature range (in ±ppm)	Total Frequency Tolerance (±ppm)	Temp. Range C = Commercial I = Industrial M = Military S = Specify