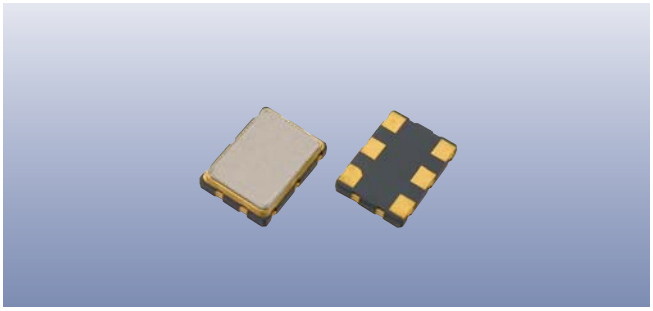
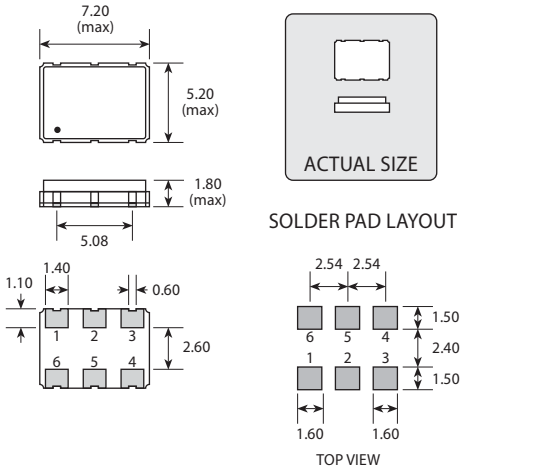
2.5V & 3.3V LVDS Oscillator

GXO-L72





PAD	CONNECTION
1	Enable / disable or Not connected
2	Not connected
3	Ground
4	Output 1
5	Output 2
6	Supply

Scale 2:1

Features

- **Differential outputs**
- **Enable / disable tristate option**
- **Fast rise / fall times**
- **Designed for SONET, SDH, IEEE1394 etc**

Standard Frequencies

Frequencies in MHz	
100.0000	155.5200
106.2500	156.2500
108.0000	161.1230
125.0000	164.3550
133.0000	

Other frequencies available. Please consult our sales office.

Specifications

Parameters	Variant L	Variant J	Option Codes
Frequency range: 100 ~ 165MHz	■	■	
Frequency stability*: ±100ppm	■	■	
±50ppm	□	□	B
±25ppm	□	□	A
Operating temperature range:			
-10 to +70°C	■	■	
-40 to +85°C	□	□	I
Storage temperature range: -40 to +85°C	■	■	
Supply voltage (V_{DD}): +3.3V (±5%)	■		
+2.5V (±5%)		■	
Supply current: 70mA max, 50mA typ	■	■	
Output: LVDS	■	■	
Offset voltage: 1.25V typ	■	■	
Differential output voltage: 0.33V typ	■	■	
Output load: 100Ω	■	■	
Start up time: 10ms max	■	■	
Waveform symmetry: 45:55 max @ 50%V_{P-P}	■	■	
Rise / fall time: 1.0ns max (20 ~ 80%V_{P-P})	■	■	
Enable / disable function:			
Tristate (control via pad 1)	■	■	
None (pad 1 not connected)	□	□	N
Output enable / disable time: 20 ms / 200ns max	■	■	
Stand-by current: 30µA max	■	■	
Period jitter RMS: 5ps max, 3ps typ	■	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

* Frequency stability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change and load change.

Ordering Information

Product name + variant + option codes (if any) + frequency

eg: **GXO-L72L 108.0MHz** 3.3V, ±100ppm -10+70°C

GXO-L72J/BI 125.0MHz 2.5V, ±50ppm -40+85°C

Option code X (eg GXO-L72L/X) denotes a custom spec.

Enable / Disable Function

Input (pad 1)	Output 1 (pad 4)	Output 2 (pad 5)
Open	Enabled	Enabled
'1' level (≥0.7V_{DD})	Enabled	Enabled
'0' level (≤0.3V_{DD})	High Impedance	High Impedance

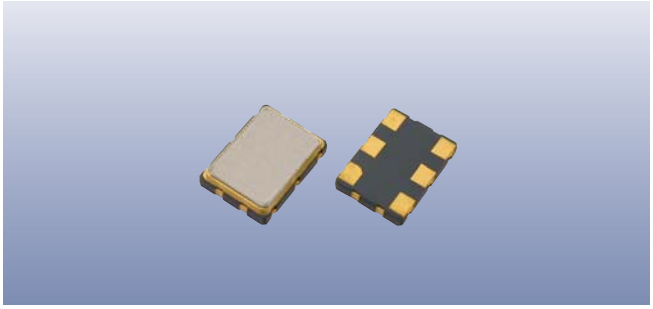
Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

Golledge

17 Mar 2006

Product Information

GXO-L72



Packaging & Handling

Production quantities supplied on T & R, 1k pcs per reel.
Small quantities may be supplied on tape (no reel), or in bulk.

- Static sensitive product. Observe proper handling precautions

Marking

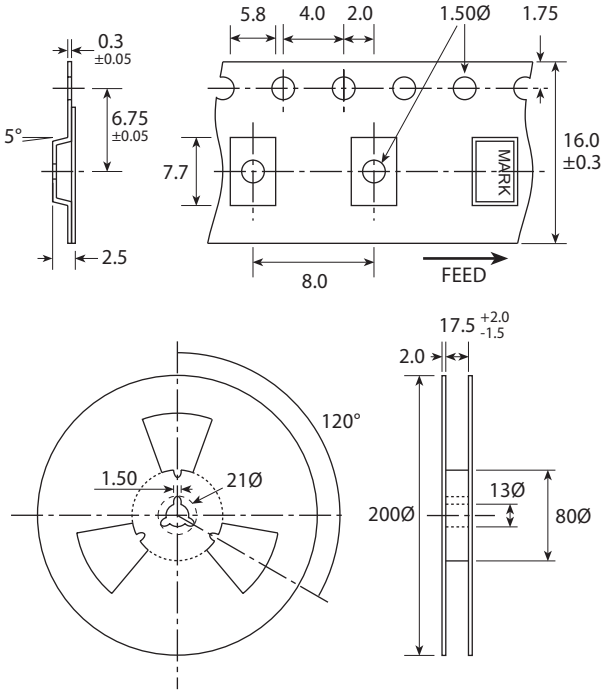
GOLLEDGE
FREQUENCY
• PARTNO DC

- Pin 1

Marking type: Laser
DC = Date code in YM, eg "CE" = May 2003

	A	B	C	D	E	F	G	H	J	K	L	M
Y	1	2	3	4	5	6	7	8	9	0		
M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Tape & Reel Specification



Not to scale. Dimensions in mm. Tolerances ±0.1mm unless otherwise stated

Construction

- **Ceramic body with gold-plated pads**
- **Metal lid, seam sealed**

Composition

RoHS 2002/95/EC

This product is lead-free, and is fully compliant with the RoHS directive 2002/95/EC

Pb LeadFree

Soldering Profile

