

7x5mm LVDS Oscillator

O7LS (former F4700, F4710 Series) DATASHEET

- LVDS Output
- Stabilities to ±20 PPM
- Temperature Ranges as wide as -40°C to +85°C
- Supply Voltages: 2.5V, 3.3V

Specifications					
PARAMETERS	MAX (unless otherwise noted)				
Frequency Range	25.0 ~ 400.0 MH	Iz			
Storage Temperature Range (T _{STG})	$-55 \sim +125^{\circ}C$				
Supply Voltage (V _{DD})	2.5V±10%	3.3V±10%			
Input Current (I _{DD})	63 mA				
Standby Current	30 µA				
Output Symmetry (50% V _{P-P})	$45\%\sim 55\%$				
Rise Time (20%~80% V _{P-P})	0.5 nS				
Fall Time (80%~20% V _{P-P})	0.5 nS				
Differential Output Voltage (VoD)	$0.247V\sim 0.454V$	$0.247V\sim 0.454V$			
Differential Offset Voltage (Vos)	$1.125V \sim 1.375V$	1.125V ~ 1.375V			
Output Load	100 Ohms Typica	ıl			
Start-up Time (Ts)	10 mS				
Output Disable Time ¹	200 nS				
Output Enable Time ¹	10 mS				
Aging (per year @ 25C)	±3 PPM				
Phase Jitter (12kHz~20MHz)	1 pS				

Enable/Disable Function					
Pin1	Out 1 (pin 4), Out 2 (pin 5)				
OPEN ¹	Active				
'1' Level $V_{IH} \ge 70\%V_{DD}$	Active				
'0' Level $V_{IL} \leq 30\% V_{DD}$	High Z				

Available Options by Stability & Operating Temp						
Frequency Stability	Frequency Range (MHz)					
±100PPM ²	-20 ~ +70	$25.0 \sim 400.0$				
±100PPM ²	-40 ~ +85	25.0 ~ 400.0				
±50PPM ²	-20 ~ +70	$25.0 \sim 400.0$				
±50PPM ²	-40 ~ +85	$25.0 \sim 400.0$				
±25PPM ²	-20 ~ +70	$25.0 \sim 400.0$				
±25PPM ³	-40 ~ +85	$25.0 \sim 400.0$				
±20PPM ³	-20 ~ +70	$25.0 \sim 400.0$				

¹ An internal pull-up resistor from pin 1 to pin 4 allows active output

if pin 1 is left open
² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, one-year aging, shock, and vibration.

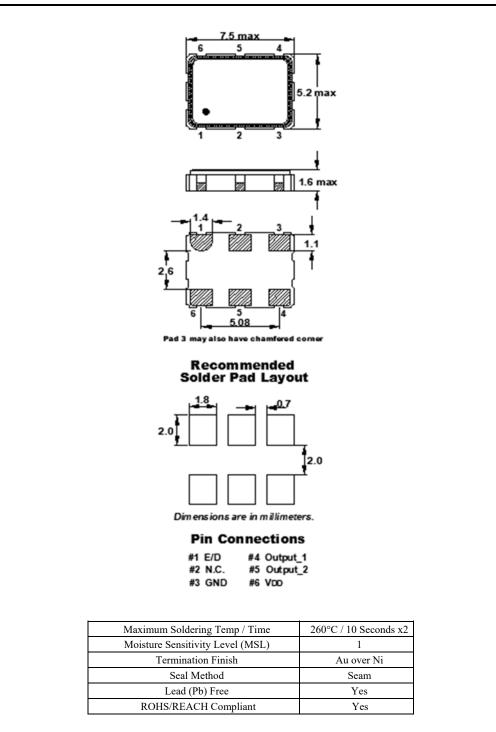
³ Inclusive of 25°C tolerance, operating temperature range.

24	Title / Description: O7LS SERIES STANDARD SPECIFICATIONS			
	Drawing Number: O7LS-DOC-1	Size: A		
FÖX	Part Number:	Cage: 61429		
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Notes:

*A 0.01µF capacitor should be placed between V_{DD} (Pin 6) and GND (Pin3) to minimize power supply line noise.

*Dimensional drawing is for reference to critical specifications defined by size measurements.

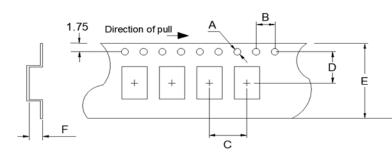
Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary.

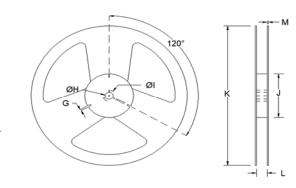
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• TAPE/REEL SPECIFICATIONS

	Tape Specifications (millimeters)					Ree	el Specif	ications	(millime	ters)			
Α	В	С	D	Ε	F	Reel Qty	G	Н	Ι	J	K	L	Μ
Ø1.55	4.0	8.0	7.5	16.0	2.1	-T2 = 2,000	2.0	Ø13	Ø21	Ø80	Ø255	17.5	2.0
						-T1 = 1,000							





Available Options & Part Identification* Example: <u>F O7LS C D M 125.0</u>									
F	F 07LS C D M 125.0								
F = Fox	Model Number	Voltage	Stability	Temp Code	Frequency (MHz)				
		J = 2.5V±10%	A = ±100PPM	F = -20 to +70°C					
		C = 3.3V±10%	$B = \pm 50 PPM$	M = -40 to +85°C					
			$D = \pm 25 PPM$						
	ha fraguanau ranga ar a		E = ±20 PPM						

*Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities and op temps table on page 1.



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