

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 MHz				
Storage Temperature Range (T _{STG})	-55 ~ +125°C				
Supply Voltage (V _{DD})	2.5V±10% 3.3V±10%				
Input Current (I _{DD})	63 mA				
Standby Current	30 μΑ				
Output Symmetry (50% V _{P-P})	45% ~ 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)	$0.247V \sim 0.454V$				
Differential Offset Voltage (Vos)	1.125V ~ 1.375V				
Output Load	100 Ohms Typical				
Start-up Time (T _S)	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} ≥ 70%V _{DD}	Active				
'0' Level $V_{IL} \le 30\%V_{DD}$	High Z				

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

 $^{^{1}}$ An internal pull-up resistor from pin 1 to pin 4 allows active output

B	Title / Description: O7LS SERIES STANDARD SPECIFICATIONS				
FÖX	Drawing Number: O7LS-DOC-1	Size: A			
FOX	Part Number:	Cage: 61429			
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if pin 1 is left open

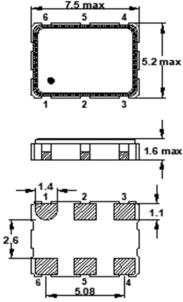
Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, one-year aging, shock, and vibration.

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



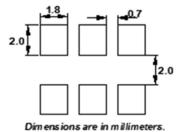
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Pad 3 may also have chamfered corner

Recommended Solder Pad Layout



Pin Connections

#1 E/D #4 Output_1 #2 N.C. #5 Output_2 #3 GND #6 VDO

Maximum Soldering Temp / Time	260°C / 10 Seconds x2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
ROHS/REACH Compliant	Yes

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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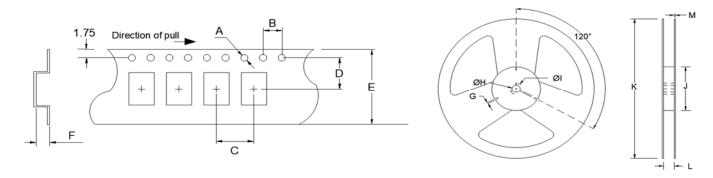


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TAPE/REEL SPECIFICATIONS

Tape Specifications (millimeters)							Rec	el Specif	ications	(millime	ters)			
A	В	C	D	E	F	Reel Qty		G	H	I	J	K	L	M
Ø1.55	4.0	8.0	7.5	16.0	2.1	-T2 = 2,000	2	0.5	Ø13	Ø21	Ø80	Ø255	17.5	2.0
						-T1 = 1.000								



Available Options & Part Identification* Example: <u>F O7LS C D M</u> <u>125.0</u>									
F O7LS 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 = ±50PPM	M = -40 to +85°C					
			D = ±25PPM						
			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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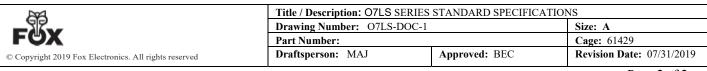
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