

(former F530LA Series) DATASHEET

- Low Input Current
- Stabilities to ±20 PPM
- Temperature Ranges to -40°C to +85°C
- Supply Voltage: 3.3V

3.3V ELECTRICAL CHARACTERISTICS				
PARAMETERS	MAX (unless otherwise noted)			
Frequency Range (F <sub>0</sub> )	1.800 ~ 50.000MHz			
Storage Temperature Range (T <sub>STG</sub> )	-55 ~ +125°C			
Supply Voltage (VDD)	3.3V±5%			
Input Current (IDD)				
1.800 ~ 32.000MHz	2.5mA			
32.000+ ~ 50.000MHz	3.5mA			
Standby Current	10µA			
Output Symmetry (50% V <sub>DD</sub> )	45% ~ 55%			
Rise/Fall Time (10%/90% V <sub>DD</sub> Levels) (T <sub>R</sub> /T <sub>F</sub> )	12nS			
Output Voltage (VoL)	10% V <sub>DD</sub>			
(Vон)	90% V <sub>DD</sub> Min			
Output Load (HCMOS)	15pF			
Start-up Time (T <sub>S</sub> )	5mS			
Output Disable Time <sup>1</sup>	150nS			
Output Enable Time <sup>1</sup>	5mS			

ENABLE / DISABLE FUNCTION			
Pin1	Output (pin 3)		
OPEN <sup>1</sup>	Active		
'1' Level $V_{IH} \ge 70\%V_{DD}$	Active		
'0' Level $V_{\text{IL}} \leq 30\% V_{\text{DD}}$	High Z		

<ul> <li>Available Options by Stability &amp; Operating Temp</li> </ul>				
Frequency Stability	Operating Temperature (°C) Frequency Range (I			
±100PPM <sup>2</sup>	-10 ~ +70	1.800 ~ 50.000		
±100PPM <sup>2</sup>	-40 ~ +85	1.800 ~ 50.000		
±50PPM <sup>2</sup>	-10 ~ +70	1.800 ~ 50.000		
±50PPM <sup>2</sup>	-40 ~ +85	1.800 ~ 50.000		
±25PPM <sup>2</sup>	-10 ~ +70	1.800 ~ 50.000		
±25PPM <sup>3</sup>	-40 ~ +85	1.800 ~ 50.000		
±20PPM <sup>3</sup>	-10 ~ +70	1.800 ~ 50.000		

<sup>1</sup> An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

<sup>2</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, one-year aging, shock, and vibration.
 <sup>3</sup> Inclusive of 25°C tolerance, operating temperature range.

24	Title / Description: O5HL SERIES STANDARD SPECIFICATIONS		
FÖX	Drawing Number: O5HL-DOC-1	Size: A	
FOX	Part Number:	Cage: 61429	
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O5HL

## **DIMENSIONS / MECHANICAL SPECIFICATIONS**





**Dimensions in millimeters** 

Pin Connections#1 E/D#3 Output#2 G ND#4 VDD

Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
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<sub>DD</sub> (Pin 4) and GND (Pin2) 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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Available Options & Part Identification* Example: <u>F O5HL B B M 25.0</u>					
F	O5HL	В	В	М	25.0
Fox	Model Number	Voltage	Stability	Operating	Frequency
		B = 3.3V±5%	A = ±100 PPM	Temperature	
			B = ±50 PPM	E = -10 to +70°C	
			D = ±25 PPM	M = -40 to +85°C	
			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 for each VDD.

or



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