

O7PS (former F4600, F4620 Series)

DATASHEET

- LVPECL Output
- Stabilities to ±20 PPM
- •Temperature Ranges to -40°C to +85°C

·Supply Voltages: 2.5V, 3.3V

2.5V ELECTRICAL CHARACTERISTICS							
PARAMETERS	MAX (unless otherwise noted)						
Frequency Range	40.000 ~325.000 MHz						
Storage Temperature Range (T _{STG})	-55 ~ +125°C						
Supply Voltage (V _{DD})	2.5V±10%						
Input Current (I _{DD})	88mA						
Standby Current	30μA						
Output Symmetry (50%V _{P-P} level)							
40.000 ~ 170.000 MHz	45% ~ 55%						
>170.000 ~ 325.000 MHz	40% ~ 60%						
Rise Time (20%~80% V _{P-P})	1nS						
Fall Time (80%~20% V _{P-P})	1nS						
Output Voltage (VoL)	1.195V						
(V _{OH})	1.415V Min.						
Output Load	50 Ohms to VDD – 2.0V						
Start-up Time (Ts)	10mS						
Output Disable Time ¹	200nS						
Output Enable Time 1	10mS						
Phase Jitter (12kHz~20MHz BW)	0.3pS Typ.						

ENABLE / DISABLE FUNCTION							
Pin 1	Out 1 (Pin 4), Out 2 (Pin 5)						
OPEN ¹	Active						
'1' Level V _{IH} ≥ 70% V _{DD}	Active						
'0' Level V _{IL} ≤ 30%V _{DD}	High Z						

Available Options by Stability & Operating Temp for 2.5V ²							
Frequency Stability ²	Operating Temperature (°C)	Frequency Range (MHz)					
±100PPM	-10 ~ +70	40.000 ~ 280.000					
±100PPM	-20 ~ +70	40.000 ~ 280.000					
±100PPM	-40 ~ +85	40.000 ~ 280.000					
±50PPM	-10 ~ +70	40.000 ~ 280.000					
±50PPM	-20 ~ +70	40.000 ~ 280.000					
±50PPM	-40 ~ +85	40.000 ~ 280.000					
±25PPM	-10 ~ +70	40.000 ~ 280.000					
±25PPM	-20 ~ +70	40.000 ~ 280.000					
±25PPM	-40 ~ +85	40.000 ~ 200.000					

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, and one-year aging. (*Excludes shock and vibration)

æ	Title / Description: O7PS SERIES STANDARD SPECIFICATIONS				
32	Drawing Number: O7PS	Size: A			
FÖX	Part Number:	Cage: 61429			
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3.3V ELECTRICAL CHARACT	ERISTICS
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	40.000 ~ 325.000 MHz
Storage Temperature Range (T _{STG})	-55 ~ +125°C
Supply Voltage (V _{DD})	3.3V±10%
Input Current (I _{DD})	88mA
Standby Current	30µA
Output Symmetry (50%V _{P-P} level)	
40.000 ~ 170.000MHz	45% ~ 55%
>170.000 ~ 325.000MHz	40% ~ 60%
Rise Time (20%~80% V _{P-P})	1nS
Fall Time (80%~20% V _{P-P})	1nS
Output Voltage (V _{OL})	1.7V
(V _{OH})	2.2V Min.
Output Load	50 Ohms to VDD – 2.0V
Start-up Time (Ts)	10mS
Output Disable Time ¹	100nS
Output Enable Time ¹	10mS
Phase Jitter (12kHz~20MHz BW)	0.3pS Typ.

ENABLE / DISABLE FUNCTION							
Pin 1	Out 1 (Pin 4), Out 2 (Pin 5)						
OPEN ¹	Active						
'1' Level V _{IH} ≥ 70% V _{DD}	Active						
'0' Level V _{IL} ≤ 30%V _{DD}	High Z						

Available Options by Stability & Operating Temp for 3.3V ²							
Frequency Stability ²	Operating Temperature (°C)	Frequency Range (MHz)					
±100PPM	-10 ~ +70	40.000 ~ 325.000					
±100PPM	-20 ~ +70	40.000 ~ 325.000					
±100PPM	-40 ~ +85	40.000 ~ 325.000					
±50PPM	-10 ~ +70	40.000 ~ 325.000					
±50PPM	-20 ~ +70	40.000 ~ 325.000					
±50PPM	-40 ~ +85	40.000 ~ 325.000					
±25PPM	-10 ~ +70	40.000 ~ 325.000					
±25PPM	-20 ~ +70	40.000 ~ 325.000					
±25PPM	-40 ~ +85	40.000 ~ 280.000					
±20PPM	-10 ~ +70	40.000 ~ 280.000					
±20PPM	-20 ~ +70	40.000 ~ 280.000					

¹ An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open

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 $^{^2}$ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, and one-year aging. (*Excludes shock and vibration)

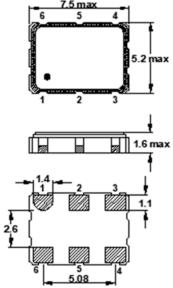


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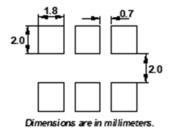
DATASHEET

DIMENSIONS / MECHANICAL SPECIFICATIONS



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 Voo

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 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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	Та	pe Spe	cificatio	ons (mi	llimeter	rs)		Reel	Specific	cations	(millim	eters)	
Α	В	С	D	E	F	Std Reel Qty	G	Н	I	J	K	L	M
Ø1.5	4.0	8.0	7.5	16.0	2.15	-T1 = 1,000 -T2 = 2,000	2.0	Ø13	Ø21	Ø80	Ø255	17.5	2.0
	1.75 + +	Direction +	+ +	A	B + + + + + + + + + + + + + + + + + + +	D E		Øl-		ØI	120°	K	M

Available Options & Part Identification* Example: <u>F O7PS C B M 62.5</u>								
F	O7PS	С	В	M	62.5			
Fox	Operating							

*Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities and op temps for each V_{DD}.



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FÖX	Drawing Number: O7PS-DOC-1		Size: A
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