

5x3.2mm LVPECL SMD Oscillator

O5PS (former F530P/F540P) DATASHEET

• LV-PECL

• Temperature Ranges to -40°C to +85°C

• Supply Voltages: 3.3V; 2.5V

ELECTRICAL CHARACTERISTICS						
PARAMETERS	MAX (unless otherwise noted)					
Supply Voltage (V _{DD})	3.3V±5%	2.5V±5%				
Frequency Range (Fo)	13.5 ~ 325MHz	13.5 ~ 250MHz				
Storage Temperature Range (T _{STG})	-55 ~ +	+125°C				
Input Current (IDD)	Current (I _{DD}) 88mA					
Standby Current	andby Current 30µA					
Output Symmetry (50% V _{p-p} level)	·					
13.5 ~ 156.25MHz	45% ~ 55%					
>156.25MHz	40% ~ 60%					
Rise Time (20% ~80% V _{p-p} Levels) (T _R)	1nS					
Fall Time (80% ~ 20% V _{p-p} Levels) (T _F)	1nS					
Output Voltage (V _{OL})	1.68V	1.095V				
(Vон)	2.275V Min 1.475V Min					
Output Load	50 Ohms to Vdd-2.0V					
Start-up Time (Ts)	10mS					
Disable Time	200nS					
Enable Time	Enable Time 10mS					
Phase Jitter, RMS (12kHz to 20MHz BW)	1pS					

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					

Frequency Stability	Operating Temperature (°C)
±100PPM ²	-20 ~ +70
±100PPM ²	-40 ~ +85
±50PPM ²	-20 ~ +70
±50PPM ²	-40 ~ +85
±25PPM ²	-20 ~ +70
±25PPM ³	-40 ~ +85

¹ An internal pull-up resistor from pin 1 to pin 6 allows active output if pin 1 is left open.

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

FÖX
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Title / Description: O5PS SERIES STANDARD SPECIFICATIONS							
Drawing Number: O5PS-DOC-1 Size: A							
Part Number: Cage: 61429							
Draftsperson: BEC	Approved: MAJ	Revision Date: 08/29/2019					

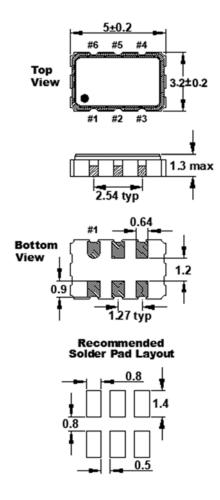
² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, one-year aging, shock, and vibration.



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DIMENSIONS / MECHANICAL SPECIFICATIONS



Dimensions in millimeters

Pin Connections#6 VDD #5 OutQN #4 OutQ #1 E/D #2 N.C. #3 Gnd

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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	Tape Specifications (millimeters)						Reel	Specifi	cations	(millim	eters)		
Α	В	С	D	Е	F	Reel Qty	G	Н	ı	J	K	L	M
Ø1.55	4.0	8.0	5.5	16.0	1.4	-T1 = 1,000	2.0	Ø13	Ø21	Ø60	Ø180	13.0	2.0
	1.75 1.75 1	Direction +	of pull +	A	B + + + + + + + + + + + + + + + + + + +	D E		ØH G		ØI	20°	K III	- M

Available Options & Part Identification* Example: F O5PS C B M 125.0

F	O5PS	В	В	M	125.0
Fox	Model Number	Voltage	Stability	Operating	Frequency
		C = 3.3V±5%	A = ±100 PPM	Temperature	
		H = 2.5V±5%	B = ±50 PPM	F = -20 to +70°C	
			D = ±25 PPM	M = -40 to +85°C	

^{*}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.



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