



## Features

- LVPECL Output
- Stabilities to  $\pm 20$  PPM
- Temperature Ranges to  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Supply Voltages: 2.5V, 3.3V

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (Fo)	13.5 ~ 250 MHz
Temperature Range	
Storage (T <sub>STG</sub> )	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Supply Voltage (V <sub>DD</sub> ) ( $\pm 5\%$ )	2.5V; 3.3V $\pm 10\%$
Input Current (I <sub>DD</sub> )	70 mA
Standby Current	15 $\mu\text{A}$
Output Symmetry (50% V <sub>P-P</sub> level)	45% ~ 55%
Rise Time (20%~80% V <sub>P-P</sub> level)	0.5 nS
Fall Time (80%~20% V <sub>P-P</sub> level)	0.5 nS
Output Voltage Level (V <sub>OL</sub> ) (V <sub>OH</sub> )	V <sub>DD</sub> – 1.62V V <sub>DD</sub> – 1.025V Min.
Output Load	50 Ohms to V <sub>DD</sub> – 2.0V
Start-up Time (T <sub>S</sub> )	10mS
Output Disable Time <sup>1</sup>	200nS
Output Enable Time <sup>1</sup>	10mS
Aging (@ 25C)	$\pm 5$ PPM first year
Phase Jitter (12kHz~20MHz)	1pS
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam Seal
Lead (Pb) Free	YES
RoHS/REACH Compliant	YES

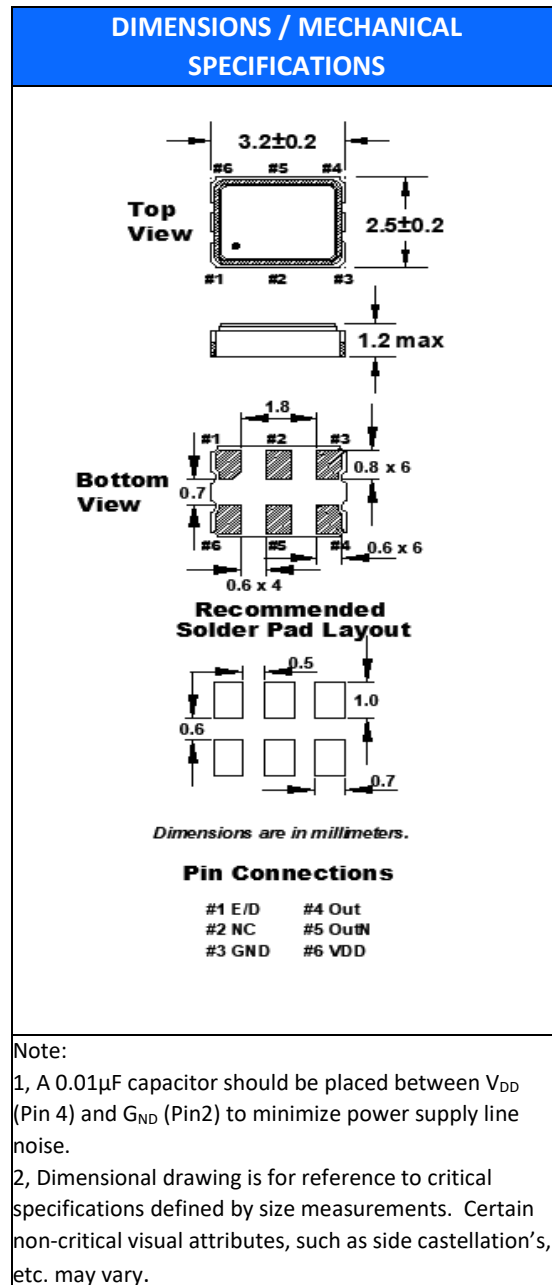
ENABLE / DISABLE FUNCTION	
Pin1	Out 1 (pin 4), Out 2 (pin 5)
OPEN <sup>1</sup>	Active
'1' Level V <sub>IH</sub> $\geq 80\%V_{DD}$	Active
'0' Level V <sub>IL</sub> $\leq 20\%V_{DD}$	High Z

Available Options by Stability & Operating Temp		
Frequency Stability <sup>2</sup>	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM	-20 ~ +70	13.5 ~ 250
±100PPM	-40 ~ +85	13.5 ~ 250
±50PPM	-20 ~ +70	13.5 ~ 250
±50PPM	-40 ~ +85	13.5 ~ 250
±25PPM	-20 ~ +70	13.5 ~ 250
±25PPM	-40 ~ +85	13.5 ~ 250
±20PPM	-20 ~ +70	13.5 ~ 250

<sup>1</sup> An internal pull-up resistor from pin 1 to pin 6 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.

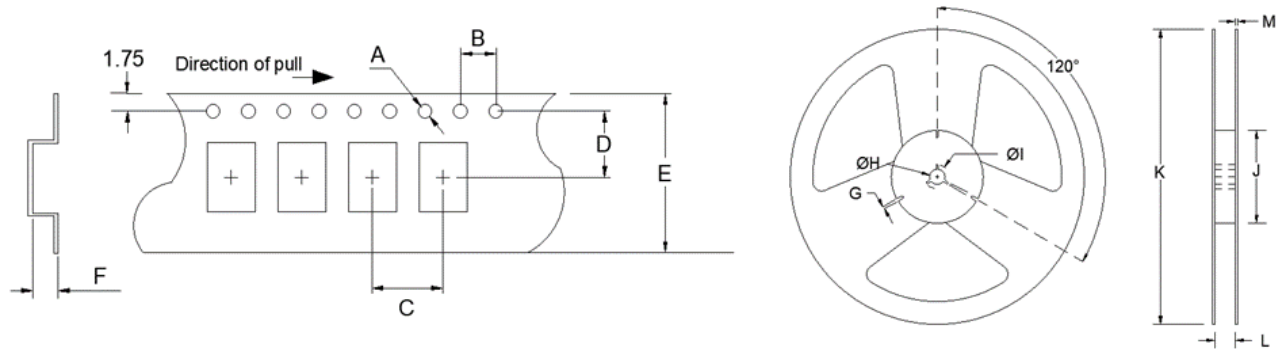


# FO3PS

3.2mm x 2.5mm  
LVPECL Oscillator



TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	4.0	3.5	8.0	1.4	-T2 = 2,000 -T1 = 1,000	2.0	ø13	ø21	ø60	ø180	9.0	1.2



## Available Options & Part Identification\*

Sample PN: **FO3PSCBM125.0-T2**

F	O3PS	C	B	M	125.0	-T2
<b>Fox</b>	<b>Model Number</b>	<b>Voltage</b> J = 2.5V±10% C = 3.3V±10%	<b>Stability</b> A = ±100PPM B = ±50PPM D = ±25PPM E = ±20PPM	<b>Operating Temperature</b> F = -20 to +70°C M = -40 to +85°C	<b>Frequency (MHz)</b>	<b>Values Added Options</b> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs

\*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<sub>DD</sub>.

### Reliability Test Conditions

Please contact Abracon Quality Assurance department