FO5PS

(Former F530P/F540P)

5mm x 3.2mm

LVPECL SMD Oscillator

Features

- LV-PECL
- Temperature Ranges from -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 (F_O)	13.5 ~ 325MHz	13.5 ~ 250MHz
Temperature Range Storage (T_{STG})	-55°C ~ +125°C	
Input Current (I_{DD})	88 mA	
Standby Current (I_{ST})	30µA	
Output Symmetry (50% V_{P-P}) 13.5 ~ 156.25MHz >156.25MHz	 45 % ~ 55 % 40 % ~ 60 %	
Rise Time (20% ~80% Vp-p Levels) (TR)	1 nS	
Fall Time (80% ~ 20% Vp-p Levels) (TF)	1 nS	
Output Voltage (V_{OL}) (V_{OH})	1.68V 2.275V Min	1.095V 1.475V Min
Output Load	50 Ohms to V_{dd}-2.0V	
Start-up Time (T_S)	10 mS	
Output Disable Time [1]	200 nS	
Output Enable Time [1]	10 mS	
Phase Jitter, RMS (12kHz to 20MHz BW)	1 pS	

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

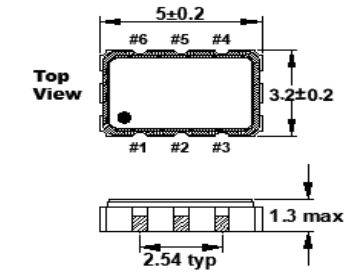
Available Options by Stability & Operating Temp	
Frequency Stability	**Operating Temperature (°C)**
±100PPM[2]	-20 ~ +70
±100PPM[2]	-40 ~ +85
±50PPM[2]	-20 ~ +70
±50PPM[2]	-40 ~ +85
±25PPM[2]	-20 ~ +70
±25PPM[3]	-40 ~ +85

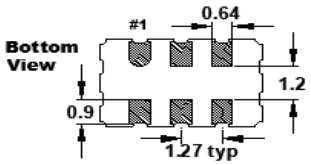
[1] An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open

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

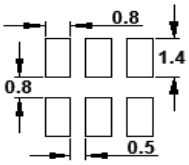
[3] Inclusive of 25°C tolerance and operating temperature range.

DIMENSIONS / MECHANICAL SPECIFICATIONS





Recommended Solder Pad Layout



Dimensions in millimeters

Pin Connections

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

Note:
1, A 0.01µF capacitor should be placed between V_{DD} (Pin 4) and G_{ND} (Pin2) to minimize power supply line noise.
2, Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellation's, etc. may vary.

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au (0.3~1µm) over Ni (1.27~8.89µm)
Seal Method	Seam
Lead (Pb) Free	Yes
ROHS/REACH Compliant (latest version)	Yes

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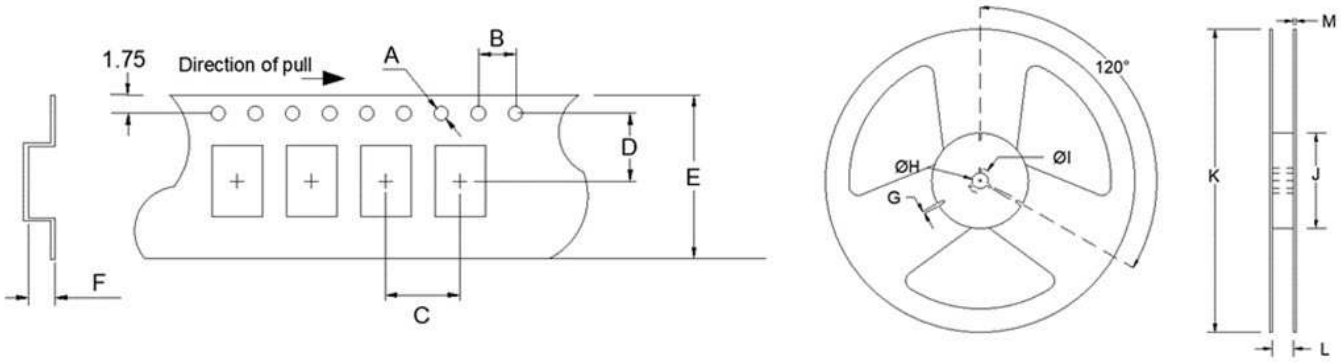
TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.55	4.0	8.0	5.5	16.0	1.4	-T1 = 1,000	2.0	Ø13	Ø21	Ø60	Ø180	13.0	2.0



Available Options & Part Identification*						
Sample PN: FO5PSCBM125.0-T1						
F	**O5PS**	**C**	**B**	**M**	**125.0**	**-T1**
Fox	**Model Number**	**Voltage** **C = 3.3V±5%** H = 2.5V±5%	**Stability** A = ±100 PPM **B = ±50 PPM** D = ±25 PPM	**Operating Temperature** F = -20 to +70˚C **M = -40 to +85˚C**	**Frequency (MHz)**	**Values Added Options** Blank = Bulk **T1 = 1,000 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_{DD}.

Reliability Test Conditions
Please contact Abracon Quality Assurance department