

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_0)	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% V_{p-p} Levels) (TR)	1 nS	
Fall Time (80% ~ 20% V_{p-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

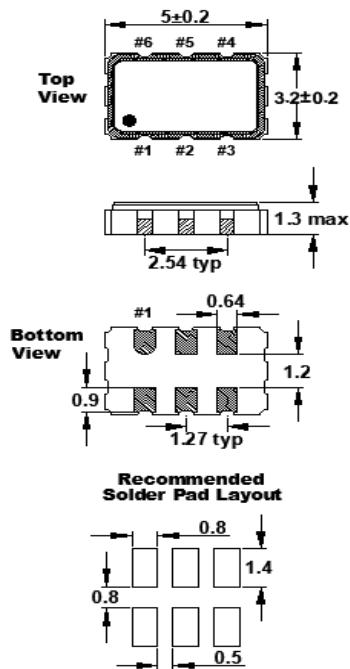
Available Options by Stability & Operating Temp	
Frequency Stability	Operating Temperature (°C)
±100PPM ²	-20 ~ +70
±100PPM ²	-40 ~ +85
±50PPM ²	-20 ~ +70
±50PPM ²	-40 ~ +85
±25PPM ²	-20 ~ +70
±25PPM ³	-40 ~ +85

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



Dimensions in millimeters

Pin Connections

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

Note:

1, A $0.01\mu\text{F}$ 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 castellations, 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 ($0.3 \sim 1\mu\text{m}$) over Ni ($1.27 \sim 8.89\mu\text{m}$)
Seal Method	Seam
Lead (Pb) Free	Yes
ROHS/REACH Compliant (latest version)	Yes

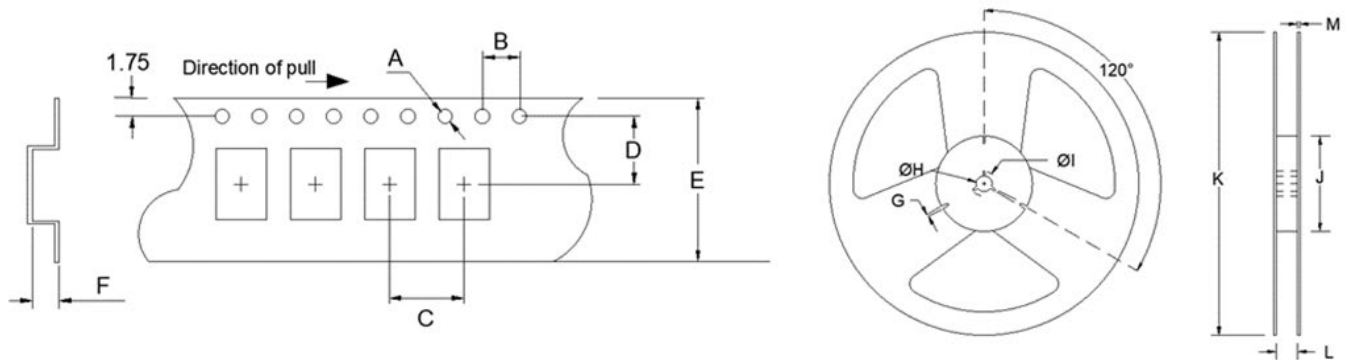
FO5PS

(Former F530P/F540P)

5mm x 3.2mm
LVPECL SMD Oscillator



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