

Features

- Low Input Current
- Stabilities to ± 20 PPM
- Temperature Ranges from -40°C to $+85^{\circ}\text{C}$
- Supply Voltages: 3.3V

3.3V ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F_0)	1.800 ~ 50.000 MHz
Temperature Range Storage (T_{STG})	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Supply Voltage (V_{DD})	3.3V $\pm 5\%$
Input Current (I_{DD})	
1.800 ~ 32.000MHz	2.5 mA
32.000+ ~ 50.000MHz	3.5 mA
Standby Current (I_{ST})	10 μA
Output Symmetry (50% V_{DD})	45 % ~ 55 %
Rise/Fall Time (10%~90% V_{DD} Levels) (T_R/T_F)	12 nS
Output Voltage (V_{OL}) (V_{OH})	10 % V_{DD} 90 % V_{DD} Min
Output Load (HCMOS)	15 pF
Start-up Time (T_S)	5 mS
Output Disable Time ¹	150 nS
Output Enable Time ¹	5 mS

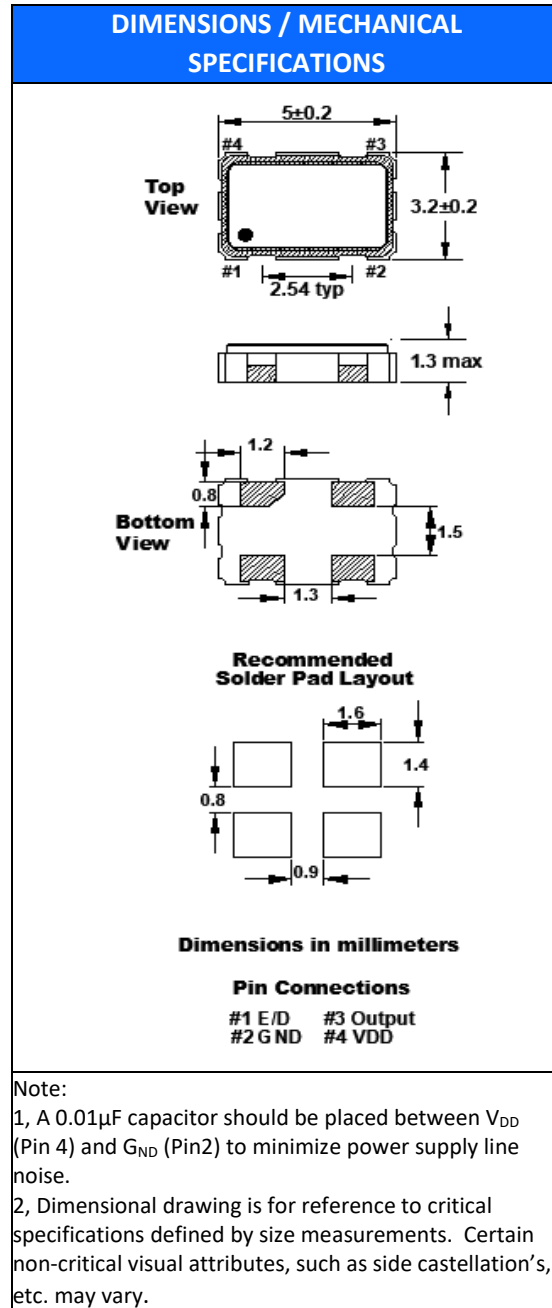
ENABLE / DISABLE FUNCTION	
Pin1	Output (pin 3)
OPEN ¹	Active
'1' Level $V_{IH} \geq 70\%V_{DD}$	Active
'0' Level $V_{IL} \leq 30\%V_{DD}$	High Z

Available Options by Stability & Operating Temp		
Frequency Stability	Operating Temperature ($^{\circ}\text{C}$)	Frequency Range (MHz)
$\pm 100\text{PPM}^2$	$-10 \sim +70$	1.800 ~ 50.000
$\pm 100\text{PPM}^2$	$-40 \sim +85$	1.800 ~ 50.000
$\pm 50\text{PPM}^2$	$-10 \sim +70$	1.800 ~ 50.000
$\pm 50\text{PPM}^2$	$-40 \sim +85$	1.800 ~ 50.000
$\pm 25\text{PPM}^2$	$-10 \sim +70$	1.800 ~ 50.000
$\pm 25\text{PPM}^3$	$-40 \sim +85$	1.800 ~ 50.000
$\pm 25\text{PPM}^3$	$-10 \sim +70$	1.800 ~ 50.000

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, one-year aging, shock, and vibration.

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



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

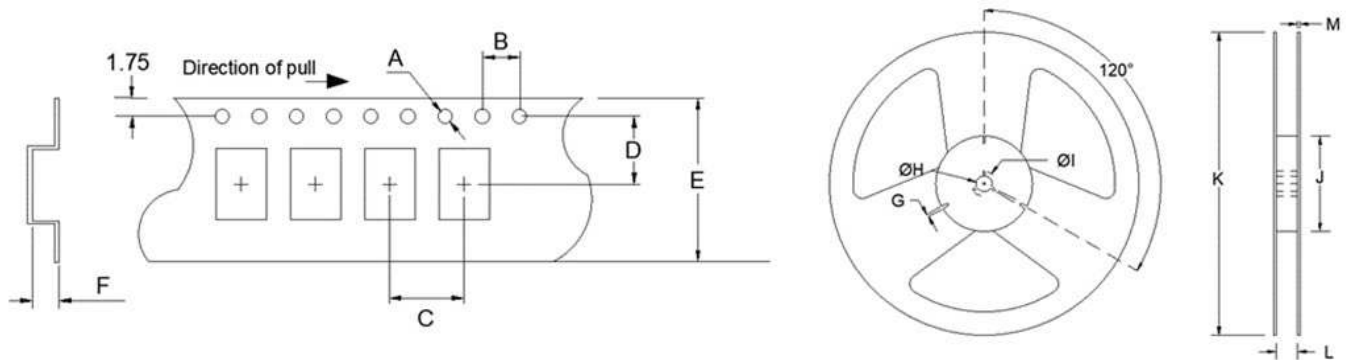
FO5HL

(Former F530LA)

5mm x 3.2mm
HCMOS SMD 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	8.0	5.5	12.0	1.5	-T1 = 1,000	2.0	ø13	ø21	ø62	ø180	13.5	2.0



Available Options & Part Identification*

Sample PN: **FO5HLBBM25.0-T1**

F	O5HL	B	B	M	25.0	-T1
Fox	Model Number	Voltage B = 3.3V±5%	Stability A = ±100 PPM B = ±50 PPM D = ±25 PPM E = ±20 PPM	Operating Temperature E = -10 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