

ENABLE / DISABLE FUNCTION	
Pin ¹	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 for 1.8V ²		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM	-20 ~ +70	1.0 ~ 80
±100PPM	-40 ~ +85	1.0 ~ 80
±50PPM	-20 ~ +70	1.0 ~ 80
±50PPM	-40 ~ +85	1.0 ~ 80
±30PPM	-20 ~ +70	1.0 ~ 80
±30PPM	-40 ~ +85	1.0 ~ 80
±25PPM	-20 ~ +70	1.0 ~ 80
±20PPM*	-20 ~ +70	1.0 ~ 80

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

²Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, Reflow, and one-year aging. *Excludes Shock/Vibration.

2.5V ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F ₀)	1.000 ~ 80.000 MHz
Storage Temperature Range (T _{STG})	-55 ~ +125°C
Supply Voltage (V _{DD})	2.5V±10%
Input Current (I _{DD})	
1.000 ~ 20.000 MHz	3 mA
20.000001 ~ 30.000 MHz	4 mA
30.000001 ~ 40.000 MHz	5 mA
40.000001 ~ 50.000 MHz	6 mA
50.000001 ~ 60.000 MHz	7 mA
60.000001 ~ 70.000 MHz	8 mA
70.000001 ~ 80.000 MHz	9 mA
Standby Current	10 μA
Output Symmetry (50% V _{DD})	45% ~ 55%
Rise/Fall Time (10%/90% V _{DD} Levels) (T _R /T _F)	4.5 nS
Output Voltage (V _{OL})	10% V _{DD}
(V _{OH})	90% V _{DD} Min
Output Load (HCMOS)	15 pF
Start-up Time (T _S)	2 mS
Output Disable Time 1	200 nS
Output Enable Time 1	2 mS
Maximum Solder Temp/Time	260°C / 10 Seconds x2
Moisture Sensitivity Layer	1
Termination Finish	Au (0.3~1μm) over Ni (1.27~8.89μm
Lead-Free	Yes
RoHS/REACH Compliant	Yes

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Pin ¹	Output (pin 3)
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'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 for 2.5V ²		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM	-20 ~ +70	1.0 ~ 80
±100PPM	-40 ~ +85	1.0 ~ 80
±50PPM	-20 ~ +70	1.0 ~ 80
±50PPM	-40 ~ +85	1.0 ~ 80
±30PPM	-20 ~ +70	1.0 ~ 80
±30PPM	-40 ~ +85	1.0 ~ 80
±25PPM	-20 ~ +70	1.0 ~ 80
±20PPM*	-20 ~ +70	1.0 ~ 80

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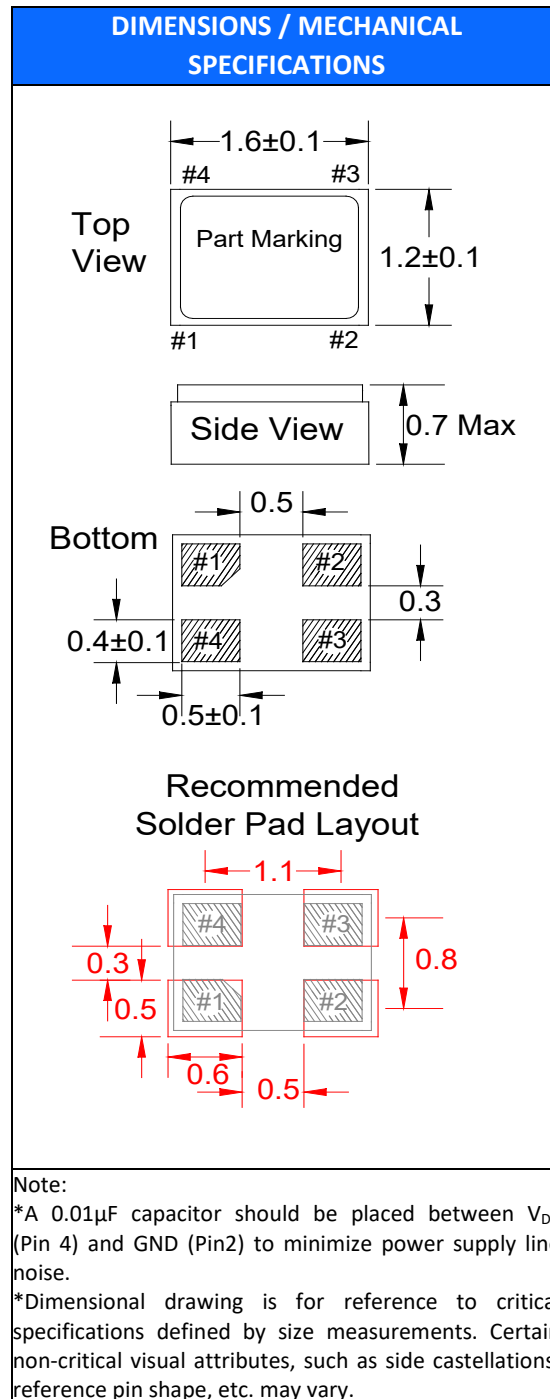
3.3V ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F ₀)	1.000 ~ 80.000 MHz
Storage Temperature Range (T _{STG})	-55 ~ +125°C
Supply Voltage (V _{DD})	3.3V±10%
Input Current (I _{DD})	
1.000 ~ 10.000 MHz	3 mA
10.000001 ~ 20.000 MHz	4 mA
20.000001 ~ 30.000 MHz	5 mA
30.000001 ~ 40.000 MHz	6 mA
40.000001 ~ 50.000 MHz	7 mA
50.000001 ~ 60.000 MHz	8 mA
60.000001 ~ 70.000 MHz	9 mA
70.000001 ~ 80.000 MHz	10 mA
Standby Current	10μA
Output Symmetry (50% V _{DD})	45% ~ 55%
Rise/Fall Time (10%/90% V _{DD} Levels) (T _R /T _F)	4.5nS
Output Voltage (V _{OL})	10% V _{DD}
(V _{OH})	90% V _{DD} Min
Output Load (HCMOS)	15 pF
Start-up Time (T _S)	2 mS
Output Disable Time 1	200 nS
Output Enable Time 1	2 mS
Maximum Solder Temp/Time	260°C / 10 Seconds x2
Moisture Sensitivity Layer	1
Termination Finish	Au (0.3~1μm) over Ni (1.27~8.89μm)
Lead-Free	Yes
RoHS/REACH Compliant	Yes

ENABLE / DISABLE FUNCTION	
Pin ¹	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

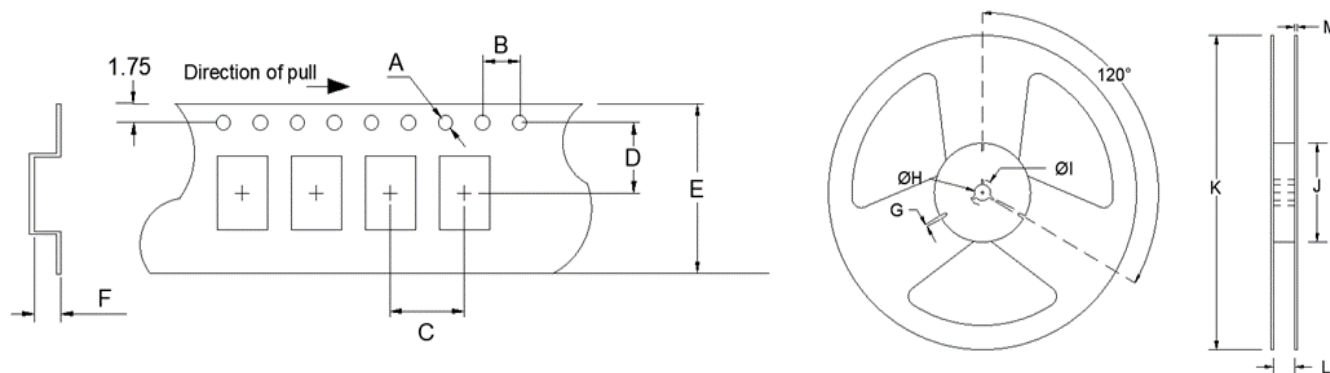
Available Options by Stability & Operating Temp for 2.5V ²		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM	-20 ~ +70	1.0 ~ 80
±100PPM	-40 ~ +85	1.0 ~ 80
±50PPM	-20 ~ +70	1.0 ~ 80
±50PPM	-40 ~ +85	1.0 ~ 80
±30PPM	-20 ~ +70	1.0 ~ 80
±30PPM	-40 ~ +85	1.0 ~ 80
±25PPM	-20 ~ +70	1.0 ~ 80
±20PPM*	-20 ~ +70	1.0 ~ 80

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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
ø1.5	4.0	4.0	3.5	8.0	0.8	-T3=3,000 default -T1 = 1,000	2.0	ø13	ø21	ø60	ø180	9.0	1.2



Available Options & Part Identification for HCMOS SMD Oscillator O8HS*

Sample PN: **FO8HSCBM25.0-T3**

F	O8HS	C	B	M	25.0	-T3
Fox	Model Number	Voltage C = 3.3V±10% J = 2.5V±10% L = 1.8V±10%	Stability A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM	Operating Temperature F = -20 to +70°C M = -40 to +85°C	Frequency (MHz)	Values Added Options Blank = Bulk T1 = 1,000 pcs T3 = 3,000 pcs

* Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available.

Reliability Test Conditions

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[FO8HSCCF24.0-T3](#) [FO8HSLCF24.0-T3](#) [FO8HSCDF22.0-T3](#) [FO8HSJDF22.0-T3](#) [FO8HSLAM10.0-T3](#)
[FO8HSLBM50.0-T3](#) [FO8HSLBM26.0-T3](#) [FO8HSLBM48.0-T3](#) [FO8HSCBM50.0-T3](#) [FO8HSLBM12.0-T3](#)
[FO8HSLBM20.0-T3](#) [FO8HSCBM10.0-T3](#) [FO8HSCBM12.0-T3](#) [FO8HSCBM16.0-T3](#) [FO8HSCBM20.0-T3](#)
[FO8HSCBM22.0-T3](#) [FO8HSCBM24.0-T3](#) [FO8HSLBM8.0-T3](#) [FO8HSLBM24.0-T3](#) [FO8HSLBM25.0-T3](#)
[FO8HSLBM37.4-T3](#) [FO8HSLBM38.4-T3](#) [FO8HSLBM4.0-T3](#) [FO8HSLBM40.0-T3](#) [FO8HSCBM48.0-T3](#)
[FO8HSCBM8.0-T3](#) [FO8HSCCM8.0-T3](#) [FO8HSLBM10.0-T3](#) [FO8HSLBM16.0-T3](#) [FO8HSLBM22.0-T3](#)
[FO8HSCBM25.0-T3](#) [FO8HSCBM26.0-T3](#) [FO8HSCBM37.4-T3](#) [FO8HSCBM38.4-T3](#) [FO8HSCBM4.0-T3](#)
[FO8HSCBM40.0-T3](#)