

Features

- HCMOS Output
- Stabilities to ± 100 PPM
- Temperature Ranges as wide as -40°C to $+85^{\circ}\text{C}$
- Supply Voltages: 3.3V

3.3V ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F_o)	1.544 ~ 50.000 MHz
Temperature Range	
Storage (T_{STG})	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Supply Voltage (V_{DD})	$3.3\text{V} \pm 10\%$
Input Current (I_{DD})	20 mA
Standby Current	10 μA
Output Symmetry (50% V_{DD})	40 % ~ 60 %
Rise/Fall Time (10%/90% V_{DD} Levels) (T_R/T_F)	6 nS
Output Voltage (V_{OL})	10 % V_{DD}
(V_{OH})	90 % V_{DD} Min
Output Load (HCMOS)	15 pF
Start-up Time (T_S)	10 mS
Output Disable Time ¹	150 nS
Output Enable Time ¹	10 mS

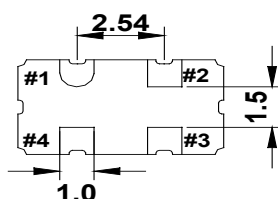
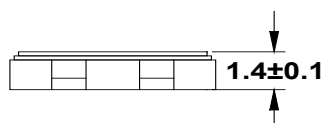
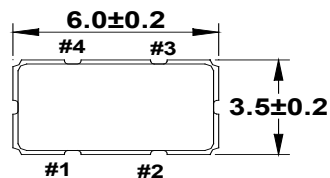
ENABLE / DISABLE FUNCTION	
Pin1	Output (pin 3)
OPEN ¹	Active
'1' Level $V_{IH} \geq 70\%V_{DD}$	Active
'0' Level $V_{IL} \leq 30\%V_{DD}$	High Z

Available Options by Stability & Operating Temp ²		
Frequency Stability ²	Operating Temperature ($^{\circ}\text{C}$)	Frequency Range (MHz)
$\pm 100\text{PPM}$	$-10 \sim +70$	1.544 ~ 50.000
$\pm 100\text{PPM}$	$-40 \sim +85$	1.544 ~ 50.000
$\pm 50\text{PPM}$	$-10 \sim +70$	1.544 ~ 50.000
$\pm 50\text{PPM}$	$-40 \sim +85$	1.544 ~ 50.000
$\pm 25\text{PPM}$	$-10 \sim +70$	1.544 ~ 50.000
$\pm 25\text{PPM}$	$-40 \sim +85$	1.544 ~ 50.000
$\pm 20\text{PPM}^*$	$-10 \sim +70$	1.544 ~ 50.000

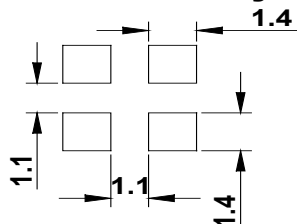
¹ An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, vibration, reflow, and One-year aging.

DIMENSIONS / MECHANICAL SPECIFICATIONS



Recommended Solder Pad Layout



Note:

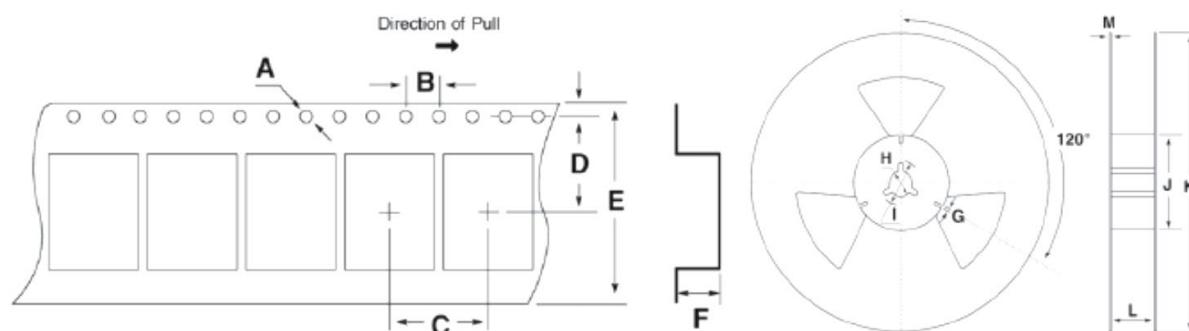
1, A 0.01 μ F capacitor should be placed between V_{DD} (Pin 4) and G_{ND} (Pin2) to minimize power supply line noise.

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 (0.3~1 μ m) over Ni (1.27~8.89 μ m)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS /REACH Compliant	Yes

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	1.9	-T2 = 2,000 -T1 = 1,000	2.0	ø13	ø21	ø80	ø255	13.5	2.0



Available Options & Part Identification*

Sample PN: **FO6HSCBE25.0-T2**

F	O6HS	C	B	E	25.0	-T2
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 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_{DD}.

Reliability Test Conditions

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[FO6HSCAE33.0-T1](#) [FO6HSCBM25.0-T1](#) [FO6HSCBM3.6864-T1](#)