## - HCMOS Output

- Stability of -170~+10 PPM
- Temperature Range of $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$

| ELECTRICAL CHARACTERISTICS |  |
| :---: | :---: |
| PARAMETERS | MAX (unless otherwise noted) |
| Frequency Range ( Fo ) | 32.768 kHz |
| Temperature Range  <br> Operating $\left(\mathrm{T}_{\mathrm{OPR}}\right)$ <br> Storage $\left(\mathrm{T}_{\mathrm{STG}}\right)$ | $\begin{gathered} -40 \sim+85^{\circ} \mathrm{C} \\ -55 \sim+125^{\circ} \mathrm{C} \\ \hline \end{gathered}$ |
| Frequency Tolerance @ $25^{\circ} \mathrm{C}$ | $+5 \pm 20 \mathrm{PPM}$ |
| Frequency Stability, ref. $25^{\circ} \mathrm{C}$ | -170~+10PPM |
| Supply Voltage (Vmd) | $\begin{aligned} & 3.3 \mathrm{~V} \pm 10 \% \text { (Std.) } \\ & 1.5 \mathrm{~V} \sim 5.5 \mathrm{~V} \text { (Usable) } \end{aligned}$ |
| Input Current (IDD) (no load) | 1.5 uA |
| Output Symmetry ( $50 \%$ VDD) | 40\% ~ 60\% |
| Rise/Fall Time ( $\mathrm{T}_{\mathrm{R}} / \mathrm{T}_{\mathrm{F}}$ ) <br> ( $20 \% / 80 \% V_{\text {DD }}$ Levels) | 200 nS |
| $\begin{array}{ll}\text { Output Voltage } & (\mathrm{VoL}) \\ (\mathrm{VOH})\end{array}$ | $\begin{aligned} & \hline 0.4 \mathrm{~V} \text { Max } \\ & \text { VDD - } 0.4 \mathrm{~V} \text { Min } \end{aligned}$ |
| Output Load (HCMOS) | 15 pF |
| Start-up Time $\quad$ (Ts) (VDD) $=1.5 \sim 5.5 \mathrm{~V}$, $\mathrm{Ta}=-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$ | 1 Second |
| Maximum Soldering Temp / Time | $260^{\circ} \mathrm{C} / 10$ Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au over Ni |
| Seal Method | Seam Seal |
| Lead (Pb) Free | Yes |
| ROHS/REACH Compliant | Yes |


| ENABLE / DISABLE FUNCTION |  |
| :--- | :--- |
| Pin 1 | Output (pin 3) |
| OPEN $^{1}$ | Active |
| ' 1 ' Level $\mathrm{V}_{\mathrm{IH}} \geq 80 \% \mathrm{~V}_{\mathrm{DD}}$ | Active |
| ' 0 ' Level $\mathrm{V}_{\mathrm{IL}} \leq 20 \% \mathrm{~V}_{\mathrm{DD}}$ | High Z |

${ }^{1}$ An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open


## Notes:

*A $0.01 \mu \mathrm{~F}$ capacitor should be placed between $\mathrm{V}_{\mathrm{DD}}(\operatorname{Pin} 4)$ and GND (Pin2) to minimize power supply line noise.
*Dimensional drawing is for reference to critical specifications defined by size measurements.
Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary
© Copyright 2019 Fox Electronics. All rights reserved

| Title / Description: O3HF SERIES STANDARD SPECIFICATIONS |  |  |
| :--- | :--- | :--- |
| Drawing Number: $\mathbf{1 0 0 5 6 5}$ | Size: A |  |
| Part Number: | Cage: 61429 |  |
| Draftsperson: MAJ | Approved: BEC | Revision Date: $4 / 11 / 2019$ |



## Available Options \& Part Identification

Example: $\underline{\text { F O3HF }} \underline{\mathbf{C}} \underline{Y} \underline{M} \underline{0.032768}$

| $F$ | O3HF | C | $Y$ | $M$ | 0.032768 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fox | Model Number | Voltage | Stability | Operating | Frequency (MHz) |
|  |  | $C=3.3 \mathrm{~V} \pm 10 \%$ | $Y=-170 \sim+10 \mathrm{PPM}$ | Temperature <br> $M=-40$ to $+85^{\circ} \mathrm{C}$ |  |



Corporate Headquarters
5570 Enterprise Parkway
Fort Myers, FL 33905
http://www.FOXONLINE.com

Sales
1-888-GET-2-FOX (1-888-438-2369)
or
1-239-693-0099
http://www.FOXONLINE.com/repdisty

Tech Support
http://www.FOXONLINE.com/email

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for Standard Clock Oscillators category:
Click to view products by Fox manufacturer:
Other Similar products are found below :
EP1400SJTSC-125.000M 601137 601252 CSX750FBC-24.000M-UT CSX750FBC-33.333M-UT CSX750FCC-3.6864M-UT F335-12 F33525 F535L-50 DSC506-03FM2 ASA-20.000MHZ-L-T ASA-25.000MHZ-L-T ASA-27.000MHZ-L-T ASV-20.000MHZ-LR-T ECS-2018-160-BN-TR EL13C7-H2F-125.00M MXO45HS-2C-66.6666MHZ NBXDBB017LN1TAG NBXHBA019LN1TAG SiT1602BI-22-33E50.000000E SIT8003AC-11-33S-2.04800X SiT8256AC-23-33E-156.250000X SIT8918AA-11-33S-50.000000G SM4420TEV-40.0M-T1K SMA4306-TL-H F335-24 F335-40 F335-50 F535L-10 F535L-12 F535L-16 F535L-24 F535L-27 F535L-48 PE7744DW-100.0M CSX750FBC-20.000M-UT CSX-750FBC33333000T CSX750FBC-4.000M-UT CSX750FBC-7.3728M-UT CSX750FBC-8.000M-UT CSX750FCC14745600T CSX750FCC-16.000M-UT CSX-750FCC40000000T CSX750FCC-4.000M-UT ASA-22.000MHZ-L-T ASA2-26.000MHZ-L-T ASA-40.000MHZ-L-T ASA-48.000MHZ-L-T ASA-60.000MHZ-L-T ASF1-3.686MHZ-N-K-S

