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HCMOS 7x5mm SMD Oscillator

O7HH
(former F3345 Series)
DATASHEET

- HCMOS Output
- Stabilities to ± 20 PPM
- Temperature Ranges as wide as -40°C to $+85^{\circ}\text{C}$
- Supply Voltages: 5.0V

5.0V ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (F_0)	1 ~ 125 MHz
Storage Temperature Range (T_{STG})	$-55 \sim +125^{\circ}\text{C}$
Supply Voltage (V_{DD})	$5.0 \pm 10\%$
Input Current (I_{DD})	
01.000 ~ 25.000 MHz	25 mA
25.000+ ~ 50.000 MHz	40 mA
50.000+ ~ 67.000 MHz	60 mA
67.000+ ~ 80.000 MHz	73 mA
80.000+ ~ 125.000 MHz	90 mA
Output Symmetry (50% V_{DD})	45 % ~ 55 %
Rise/Fall Time (10%/90% V_{DD} Levels) (T_R/T_F)	
1.000 ~ 125.000 MHz	7 nS
Output Voltage (V_{OL})	10 % V_{DD}
(V_{OH})	90 % V_{DD} Min
Output Current (I_{OL})	16 mA Min
(I_{OH})	-16 mA Min
Output Load (HCMOS)	50 pF
Start-up Time (T_S)	10 mS
Output Disable Time ¹	100 nS
Output Enable Time ¹	100 nS

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 for 5.0V²

Frequency Stability ²	Operating Temperature ($^{\circ}\text{C}$)	Frequency Range (MHz)
$\pm 100\text{PPM}$	$-10 \sim +70$	1.000 ~ 125.000
$\pm 100\text{PPM}$	$-40 \sim +85$	1.000 ~ 80.000
$\pm 50\text{PPM}$	$-10 \sim +70$	1.000 ~ 80.000
$\pm 50\text{PPM}$	$-40 \sim +85$	1.000 ~ 80.000
$\pm 25\text{PPM}$	$-10 \sim +70$	1.000 ~ 80.000
$\pm 25\text{PPM}$	$-40 \sim +85$	1.000 ~ 80.000
$\pm 20\text{PPM}^*$	$-10 \sim +70$	1.000 ~ 80.000

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

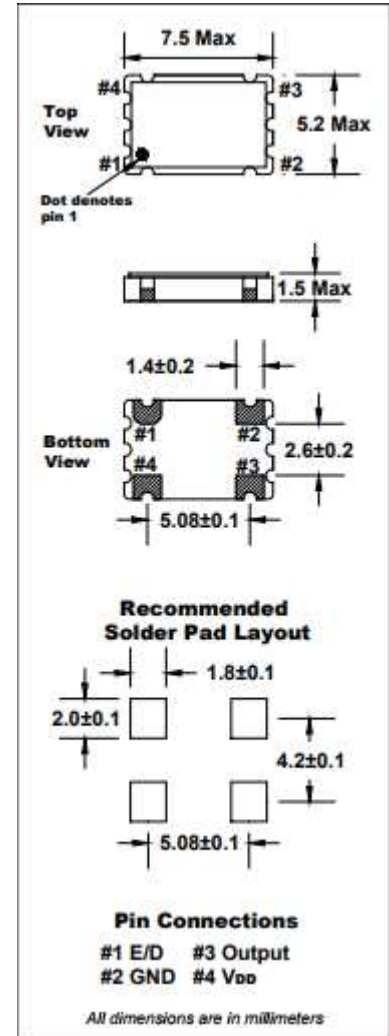
² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, and one year aging. *Excludes Shock/Vibration.

Notes:

A $0.01\mu\text{F}$ capacitor should be placed between V_{DD} (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



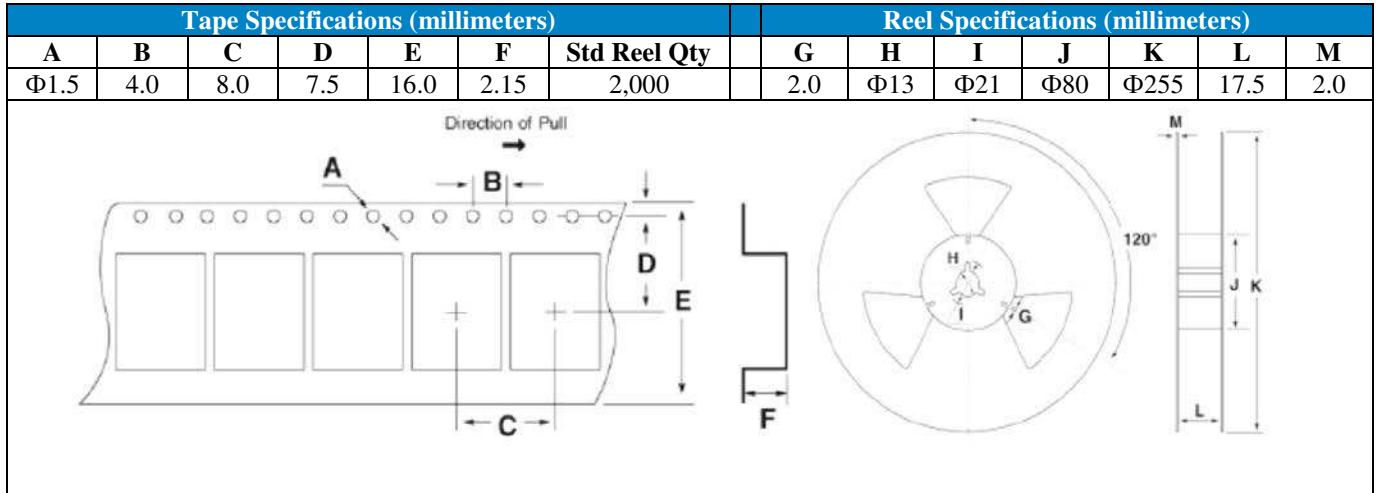
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam Seal
Lead (Pb) Free	Yes
ROHS/REACH Compliant	Yes

	Title / Description: O7HH SERIES STANDARD SPECIFICATIONS	
	Drawing Number: 101164	Size: A
	Part Number:	Cage: 61429
	Draftsperson: MK	Approved: RB
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Available Options & Part Identification*

Example: **F O7HH A B M 25.0**

F	O7HH	A	B	M	25.0
Fox	Model Number	Voltage A = 5V±10%	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

*Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities and op temps on page 1.



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