FO7HH

(Former F3345 Series)

7mm x 5mm

HCMOS SMD Oscillator

Features

- HCMOS Output
- Stabilities to ±20 PPM
- Temperature Ranges to -40°C to +85°C
- Supply Voltage: 5.0V

ELECTRICAL CHARACTERISTICS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range (F_O)	1 ~ 125MHz
Temperature Range Storage (T_{STG})	 -55°C ~ +125°C
Supply Voltage (V_{DD})	5.0V ±10%
Input Current (I_{DD}) 1.000 ~ 25.000MHz 25.000+ ~ 50.000MHz 50.000+ ~ 67.000MHz 67.000+ ~ 80.000MHz 80.000+ ~ 125.000MHz	 25 mA 40 mA 60 mA 73 mA 90 mA
Output Symmetry (50% V_{DD}) 1 ~ 80MHz 80+ ~ 125MHz	45/55% 40/60%
Rise/Fall Time (10%/90% V_{DD} Levels) (T_R/T_F) 1 ~ 80.000MHz 80+ ~ 100MHz 100+ ~ 125MHz	 7nS 5nS 4nS
Output Voltage (V_{OL}) (V_{OH})	10 % V_{DD} 90 % V_{DD} Min
Output Load (HCMOS)	50 pF
Start-up Time (T_S)	10 mS
Output Disable Time [1]	100 nS
Output Enable Time [1]	10 mS

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		
Frequency Stability	**Operating Temperature (°C)**	**Frequency Range (MHz)**
±100PPM[2]	-10 ~ +70	1.000 ~ 125.000
±100PPM[2]	-40 ~ +85	1.000 ~ 125.000
±50PPM[2]	-10 ~ +70	1.000 ~ 125.000
±50PPM[2]	-40 ~ +85	1.000 ~ 125.000
±25PPM[2]	-10 ~ +70	1.000 ~ 125.000
±25PPM[3]	-40 ~ +85	1.000 ~ 80.000
±20PPM[3]	-10 ~ +70	1.000 ~ 80.000

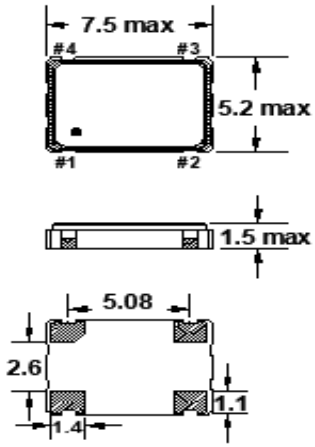
[1] An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open

[2] Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, Reflow, one year aging, shock, and vibration.

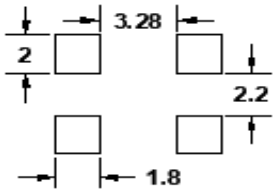
[3] Inclusive of 25°C tolerance and operating temperature range.

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DIMENSIONS / MECHANICAL SPECIFICATIONS



Recommended Solder Pad Layout



Dimensions in mm

Pin Connections

#1 E/D	#3 Output
#2 GND	#4 V_{DD}

Note:
1, A 0.01µF 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 castellation's, etc. may vary.

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	N/A
Termination Finish	Au (0.3~1µm) over Ni (1.27~8.89µm)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

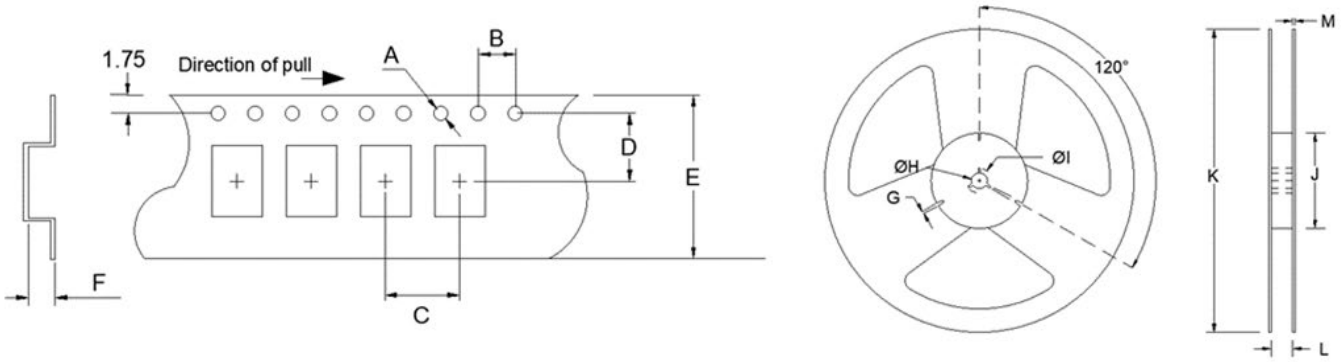
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	8.0	7.5	16.0	2.15	-T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø255	17.5	2.0



Available Options & Part Identification*						
Sample PN: FO7HHABM25.0-T1						
F	**O7HH**	**A**	**B**	**M**	**25.0**	**-T1**
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 (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

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