

Features

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

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F_0)	1 ~ 125MHz
Temperature Range	
Storage (T_{STG})	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Supply Voltage (V_{DD})	5.0V $\pm 10\%$
Input Current (I_{DD})	
1.000 ~ 25.000MHz	25 mA
25.000+ ~ 50.000MHz	40 mA
50.000+ ~ 67.000MHz	60 mA
67.000+ ~ 80.000MHz	73 mA
80.000+ ~ 125.000MHz	90 mA
Output Symmetry (50% V_{DD})	
1 ~ 80MHz	45/55%
80+ ~ 125MHz	40/60%
Rise/Fall Time (10%/90% V_{DD} Levels) (T_R/T_F)	
1 ~ 80.000MHz	7nS
80+ ~ 100MHz	5nS
100+ ~ 125MHz	4nS
Output Voltage (V_{OL})	10 % V_{DD}
(V_{OH})	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	100 nS

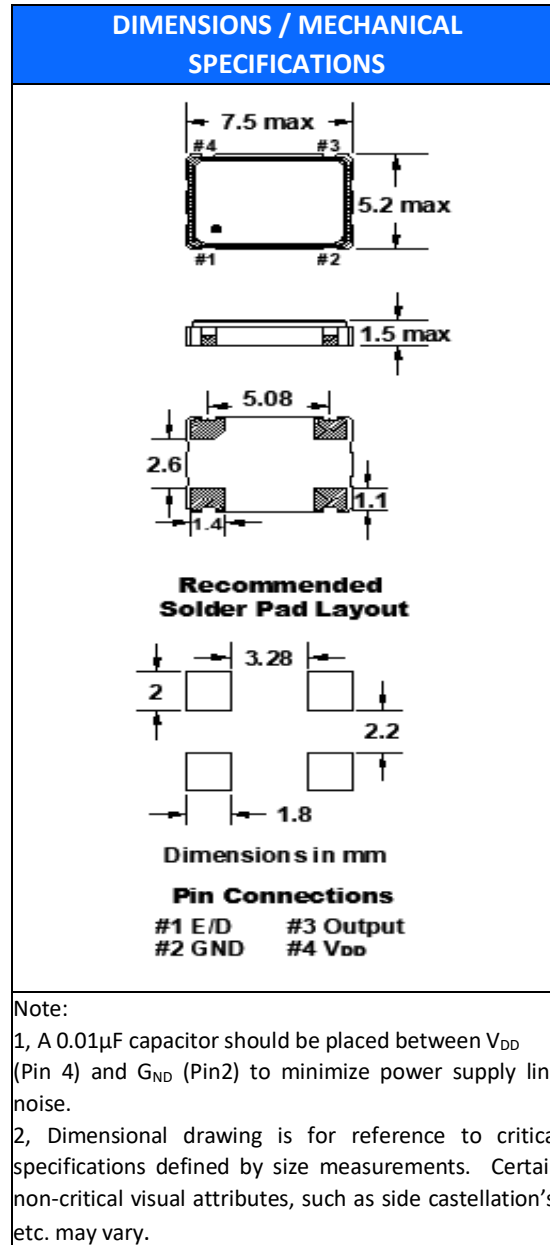
ENABLE / DISABLE FUNCTION	
Pin 1	Output (pin 3)
OPEN ¹	Active
'1' Level $V_{IH} \geq 70\%V_{DD}$	Active
'0' Level $V_{IL} \leq 30\%V_{DD}$	High Z

Available Options by Stability & Operating Temp		
Frequency Stability	Operating Temperature ($^{\circ}\text{C}$)	Frequency Range (MHz)
$\pm 100\text{PPM}^2$	$-10 \sim +70$	1.000 ~ 125.000
$\pm 100\text{PPM}^2$	$-40 \sim +85$	1.000 ~ 125.000
$\pm 50\text{PPM}^2$	$-10 \sim +70$	1.000 ~ 125.000
$\pm 50\text{PPM}^2$	$-40 \sim +85$	1.000 ~ 125.000
$\pm 25\text{PPM}^2$	$-10 \sim +70$	1.000 ~ 125.000
$\pm 25\text{PPM}^3$	$-40 \sim +85$	1.000 ~ 80.000
$\pm 20\text{PPM}^3$	$-10 \sim +70$	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, one year aging, shock, and vibration.

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



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 (0.3~1 μ m) over Ni (1.27~8.89 μ m)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

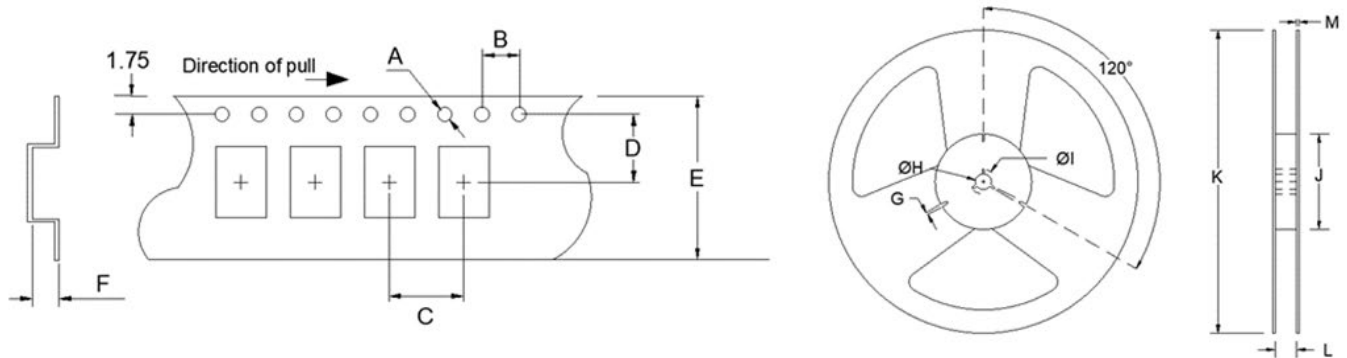
FO7HH

(Former F3345 Series)

7mm x 5mm
HCMOS SMD Oscillator



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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[F3340-2.048MHZ](#) [F3345-640](#) [F3345-240](#) [F3346-37.056MHZ](#) [F3345-400](#) [F3345-500](#) [F3345-120](#) [F3345-250](#)
[F3345-143](#) [F3345-200](#) [F3345-10.000MHZ](#) [F3345-018](#) [F3345-160](#) [F3345-320](#) [F3345-7.3728MHZ](#) [F3345-125](#)
[F3345-800](#) [F3340R-11.0592](#) [F3340-32.0000MHZ](#) [F3345R-14.7456MHZ](#) [F3345R-8Mhz](#) [FO7HHADE37.056-BULK](#)
[FO7HHADM12.288-T1](#) [FO7HHAAM20.0-BULK](#) [FO7HHAAM3.072-BULK](#) [FO7HHAAM32.0-BULK](#) [FO7HHAAM6.144-](#)
[BULK](#) [FO7HHAAM64.0-BULK](#) [FO7HHABM1.0-BULK](#) [FO7HHAAE1.8-T1](#) [FO7HHAAM18.432-T1](#) [FO7HHAAE1.8432-](#)
[T2](#) [FO7HHAAE10.0-T2](#) [FO7HHAAE12.0-T2](#) [FO7HHAAE12.288-T1](#) [FO7HHAAE12.288-T2](#) [FO7HHABM4.9152-T1](#)
[FO7HHABM4.9152-T2](#) [FO7HHADE37.056-T1](#) [FO7HHADE37.056-T2](#) [FO7HHADM14.745-T1](#) [FO7HHADM14.745-T2](#)
[FO7HHABM14.7456-T1](#) [FO7HHABM14.7456-T2](#) [FO7HHABM2.4576-T1](#) [FO7HHABM2.4576-T2](#) [FO7HHABM25.176-](#)
[T2](#) [FO7HHABM1.0-T2](#) [FO7HHABM11.0592-T1](#) [FO7HHABM11.0592-T2](#) [FO7HHABM12.288-T1](#) [FO7HHABM12.288-](#)
[T2](#) [FO7HHAAM3.6864-T1](#) [FO7HHAAM3.6864-T2](#) [FO7HHAAM7.3728-T1](#) [FO7HHAAM7.3728-T2](#) [FO7HHAAM9.8304-](#)
[T1](#) [FO7HHAAM9.8304-T2](#) [FO7HHAAM19.6608-T1](#) [FO7HHAAM19.6608-T2](#) [FO7HHAAM22.1184-T1](#)
[FO7HHAAM22.1184-T2](#) [FO7HHAAM29.4912-T1](#) [FO7HHAAM29.4912-T2](#) [FO7HHAAM14.7456-T2](#)
[FO7HHAAM16.384-T2](#) [FO7HHAAM18.432-T2](#) [FO7HHAAM18.869-T1](#) [FO7HHAAM18.869-T2](#) [FO7HHAAM1.0-T2](#)
[FO7HHAAM1.8432-T2](#) [FO7HHAAM11.059-T1](#) [FO7HHAAM11.059-T2](#) [FO7HHAAM14.7456-T1](#) [FO7HHAAE33.333-T1](#)
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[FO7HHAAE25.0-T2](#) [FO7HHAAE29.4912-T1](#) [FO7HHAAE14.31818-T2](#) [FO7HHAAE14.7456-T1](#) [FO7HHAAE14.7456-](#)
[T2](#) [FO7HHAAE16.0-T2](#) [FO7HHAAE18.432-T1](#) [FO7HHAAE18.432-T2](#)