

Features

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

5.0V ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F_0)	0.012 ~ 170.000MHz
Storage Temperature Range (T_{STG})	$-55 \sim +125^{\circ}\text{C}$
Supply Voltage (V_{DD})	$5.0V \pm 10\%$
Input Current (I_{DD})	
0.012 ~ 32.000MHz	18mA
32.000+ ~ 67.000MHz	50mA
67.000+ ~ 125.000MHz	80mA
125.000+ ~ 170.000MHz	90mA
Standby Current	10 μ A
Output Symmetry (50% V_{DD})	40% ~ 60%
Rise/Fall Time (10%/90% V_{DD} Levels) (T_R/T_F)	
0.012 ~ 79.999999MHz	5nS
> 80.000 ~ 170.000MHz	4nS
Output Voltage (V_{OL})	10% V_{DD}
(V_{OH})	90% V_{DD} Min
Output Load (HCMOS)	15pF
Start-up Time (T_S)	10mS
Output Disable Time 1	150nS
Output Enable Time 1	10mS

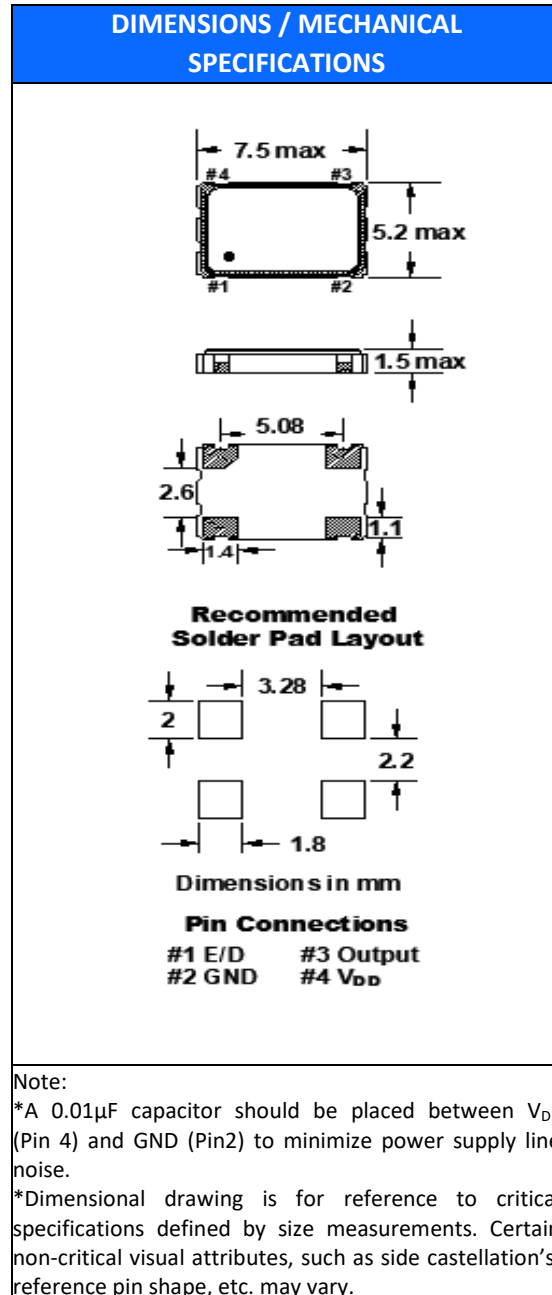
ENABLE / DISABLE FUNCTION	
Pin ¹	Output (pin 3)
OPEN ¹	Active
'1' Level $V_{IH} \geq 70\%V_{DD}$	Active
'0' Level $V_{IL} \leq 30\%V_{DD}$	High Z

Available Options by Stability & Operating Temp for 5.0V		
Frequency Stability	Operating Temperature ($^{\circ}\text{C}$)	Frequency Range (MHz)
$\pm 100\text{PPM}^2$	$-10 \sim +70$	0.012 ~ 170.000
$\pm 100\text{PPM}^2$	$-40 \sim +85$	0.012 ~ 170.000
$\pm 50\text{PPM}^2$	$-10 \sim +70$	0.012 ~ 170.000
$\pm 50\text{PPM}^2$	$-40 \sim +85$	0.012 ~ 170.000
$\pm 25\text{PPM}^2$	$-10 \sim +70$	0.012 ~ 162.000
$\pm 25\text{PPM}^3$	$-40 \sim +85$	0.012 ~ 156.000
$\pm 25\text{PPM}^3$	$-10 \sim +70$	0.012 ~ 162.000

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.

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



STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level	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

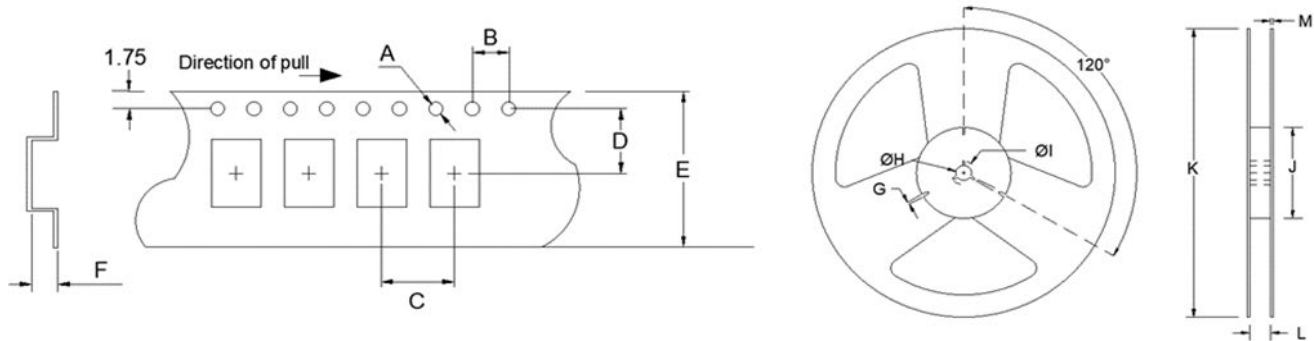
FO7HB

(Former F4101 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	-T2 = 2,000 -T1 = 1,000	2.0	ø13	ø21	ø80	ø255	17.5	2.0



Available Options & Part Identification for HCMOS SMD Oscillator O7HB*

Sample PN: **FO7HBABM25.0-T2**

F	O7HB	A	B	M	25.0	-T2
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 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

Please contact Abracon Quality Assurance department