

# HCMOS 32.768kHz 4x2.5mm SMD Oscillator

Model: F254

RoHS Compliant / Pb Free

Rev. 6/26/2008

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## FEATURES

- Tight Stability
- HCMOS Output
- Operable 1.3V ~ 5.5V
- Tape and Reel (1,000 pcs. STD)

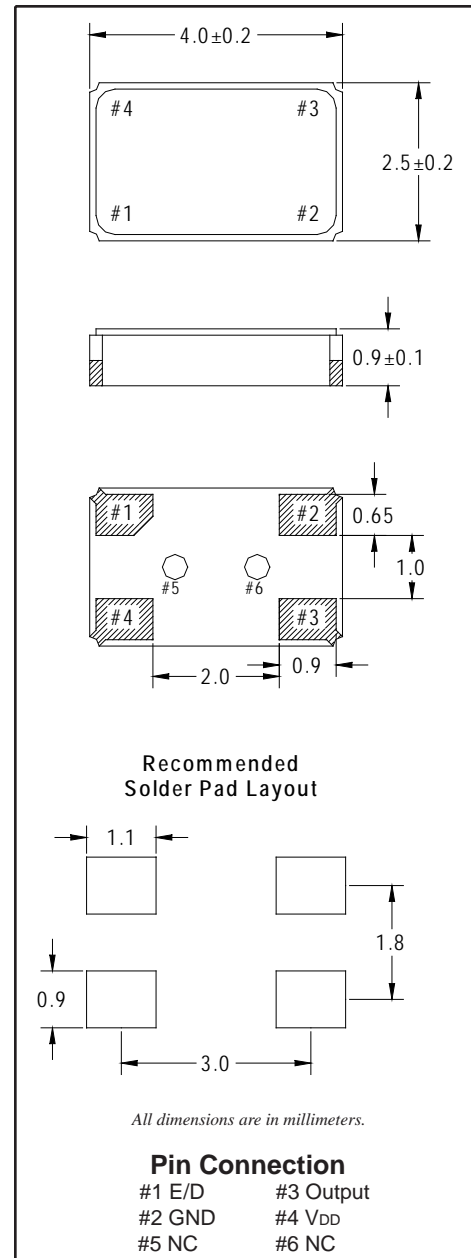
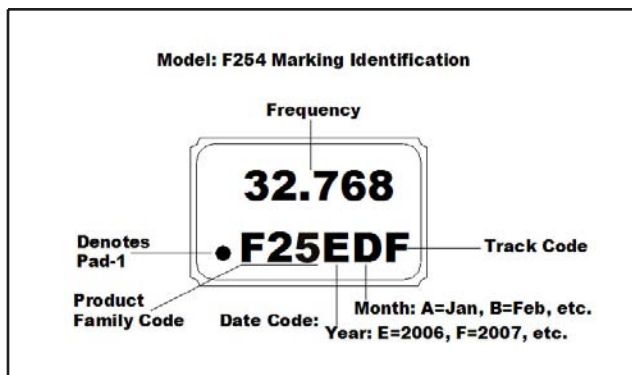
## • PART NUMBER SELECTION [Learn More - Internet Required](#)

Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency (kHz)
784-Frequency-xxxxx	F254	-120 ~ +10 PPM	-40 ~ +85	32.768

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	32.768 kHz
Temperature Range	
Operating (TOPR)	-40°C ~ +85°C
Storage (TSTG)	-55°C ~ +125°C
Frequency Tolerance (V <sub>DD</sub> = 3.3V @ 25°C)	+5±20 PPM
Frequency Stability Over Temperature Range (-20°C ~ +70°C; ref @ 25°C)	-120 ~ +10 PPM
Supply Voltage (V <sub>DD</sub> )	3.3V ± 10% (+1.3V ~ +5.5V operable)
Input Current (I <sub>DD</sub> )	1.5 µA
Symmetry (50% V <sub>DD</sub> )	40/60%
Rise Time (T <sub>R</sub> )	200nS
Fall Time (T <sub>F</sub> )	200nS
Standby Current (I <sub>ST</sub> )	250nA
Output Voltage (V <sub>OL</sub> ) (V <sub>OH</sub> )	0.4V V <sub>DD</sub> - 0.4V Min
Output Load (HCMOS)	15pF
Start-up Time (T <sub>s</sub> ) (V <sub>DD</sub> = 1.3V ~ 5.5V, -40°C ~ +85°C)	1S
Reflow Soldering Temp	260°C x 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

<sup>1</sup> If Enable/Disable function is not used, please pull Pin 1 to a high potential.  
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. All specifications subject to change without notice.



## • ENABLE / DISABLE FUNCTION

(Pin 1)	OUTPUT (Pin 3)
'1' Level V <sub>IH</sub> ≥ 90% V <sub>DD</sub>	ACTIVE <sup>1</sup>
'0' Level V <sub>IL</sub> ≤ 10% V <sub>DD</sub>	High Z

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Need a  
Sample®

• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
F254	∅1.5	4.0	4.0	5.5	12.0	1.3	1,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
F254	2.0	∅13	∅21	∅80	∅178	13.0	1.5

