

# HCMOS 3.2x2.5mm 2.5V SMD Oscillator



Model: F340 Series

RoHS Compliant / Pb Free

Rev. 10/21/2008

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## FEATURES

- 2.5V Operation
- HCMOS Output
- Low Power Consumption
- Standby Function
- Tape and Reel (2,000 pcs. STD)

XpressO® Equivalent  
**FXO-HC32**

Why XpressO?  
Lower Cost, Faster Delivery, Low Jitter!

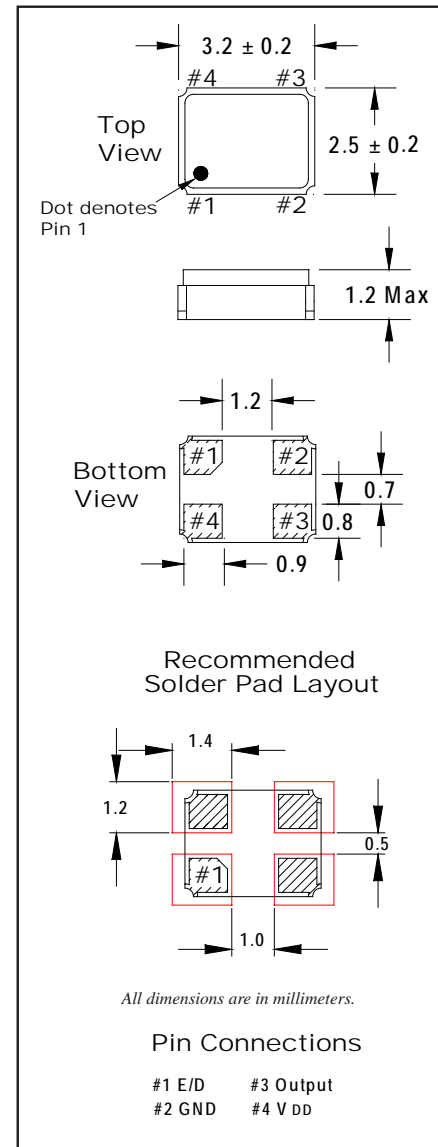
• PART NUMBER SELECTION <a href="#">Learn More</a> - Internet Required				
Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz)
639-Frequency-xxxxx	F340	±100PPM	-10 ~ +70	0.625 ~ 75.000
643-Frequency-xxxxx	F340R	±100PPM	-40 ~ +85	0.625 ~ 75.000
640-Frequency-xxxxx	F345	±50PPM	-10 ~ +70	0.625 ~ 75.000
644-Frequency-xxxxx	F345R	±50PPM	-40 ~ +85	0.625 ~ 75.000
641-Frequency-xxxxx	F346	±25PPM	-10 ~ +70	0.625 ~ 75.000
645-Frequency-xxxxx	F346R	±25PPM*	-40 ~ +85	1.800 ~ 50.000
642-Frequency-xxxxx	F348	±20PPM*	-10 ~ +70	1.800 ~ 50.000

• ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	0.625 ~ 75.000 MHz
Storage Temperature Range (Tstg)	-55°C ~ +125°C
Supply Voltage (VDD)	2.5V ± 5%
Input Current (IDD)	
0.625 ~ 20.000 Mhz	5mA
20.000+ ~ 40.000 Mhz	9mA
40.000+ ~ 60.000 Mhz	11mA
60.000+ ~ 75.000 Mhz	14mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (Tr)	6nS
Fall Time (90% ~ 10% VDD) (Tf)	6nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	2mA Min
(IOH)	-2mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	5mS
Output Disable Time <sup>2</sup>	150nS
Output Enable Time <sup>2</sup>	5mS
Maximum Solder Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. \*Excludes Shock/Vibration

<sup>2</sup> An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open. Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise.

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.



Pin Connections

- #1 E/D
- #2 GND
- #3 Output
- #4 VDD

• ENABLE / DISABLE FUNCTION	
INH (Pin 1)	OUTPUT (Pin 3)
OPEN <sup>2</sup>	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

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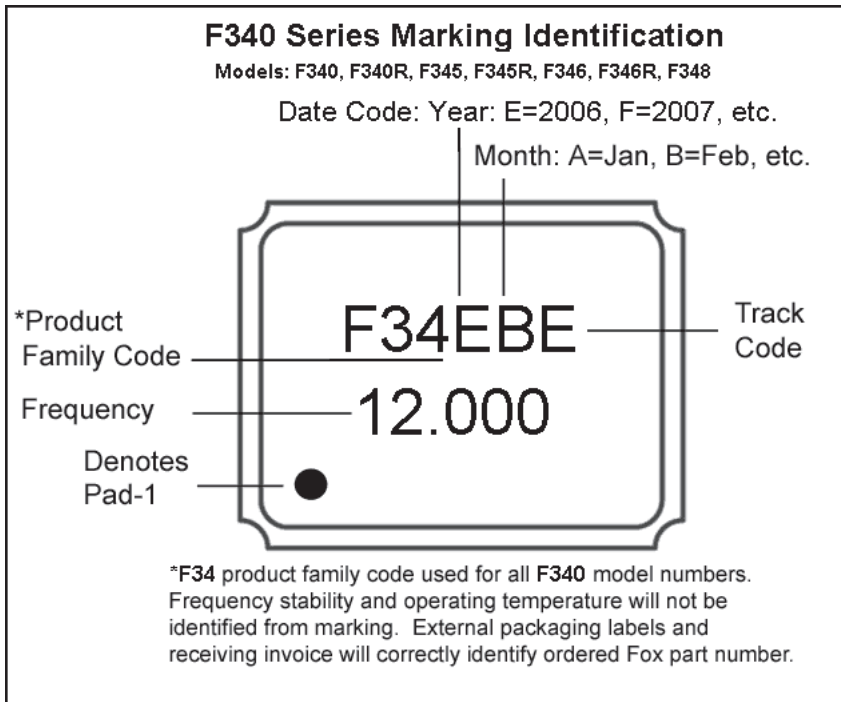
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• **TAPE SPECIFICATIONS (millimeters)**

MODEL	A	B	C	D	E	F	STD Reel QTY
F340 Series	∅1.5	4.0	4.0	3.5	8.0	1.4	2,000

• **REEL SPECIFICATIONS (millimeters)**

MODEL	G	H	I	J	K	L	M
F340 Series	2.0	∅13	∅21	∅60	∅180	9.0	1.2

