

HCMOS 3.2x2.5mm 3.3V SMD Oscillator



Model: F330 Series

RoHS Compliant / Pb Free

Rev. 4/17/2007

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http://www.foxonline.com/need_a_sample.htm

Need a
Sample®

FEATURES

- 3.3V Operation
- HCMOS Output
- Standby Function
- Tape and Reel (2,000 pcs. STD)

XpressO® Equivalent
FXO-HC33

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

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

| Part Number | Model Number | Frequency Stability ¹ | Operating Temperature (°C) | Frequency Range (MHz) |
|---------------------|--------------|----------------------------------|----------------------------|-----------------------|
| 584-Frequency-xxxxx | F330 | ±100PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 585-Frequency-xxxxx | F330R | ±100PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 586-Frequency-xxxxx | F335 | ±50PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 587-Frequency-xxxxx | F335R | ±50PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 588-Frequency-xxxxx | F336 | ±25PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 589-Frequency-xxxxx | F336R | ±25PPM* | -40 ~ +85 | 1.800 ~ 50.000 |
| 590-Frequency-xxxxx | F338 | ±20PPM* | -10 ~ +70 | 1.800 ~ 50.000 |

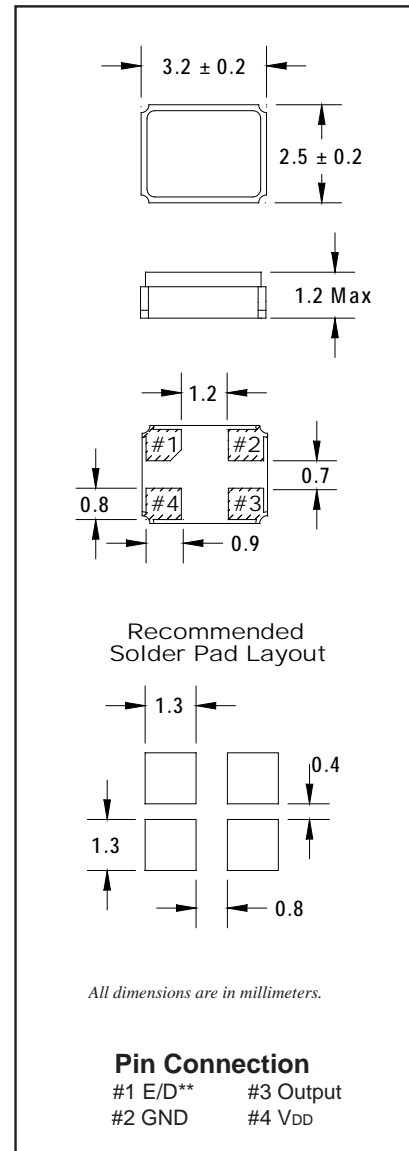
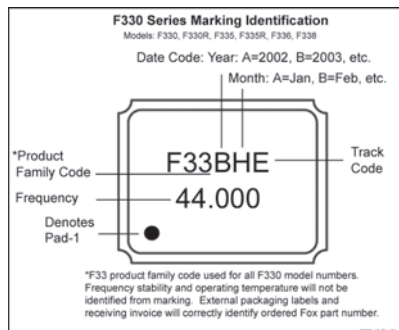
• ELECTRICAL CHARACTERISTICS

| PARAMETERS | MAX (unless otherwise noted) |
|----------------------------------|------------------------------|
| Frequency Range (Fo) | 1.800 ~ 50.000 MHz |
| Storage Temperature Range (TSTG) | -55°C ~ +125°C |
| Supply Voltage (VDD) | 3.3V ± 10% |
| Input Current (IDD) | |
| 1.800 ~ 32.000 MHz | 20mA |
| 32.000+ ~ 50.000 MHz | 25mA |
| 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 ² | 150nS |
| Output Enable Time ² | 5mS |
| Reflow Soldering Temp | 260°C / 10 Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au |

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

² 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. All specifications subject to change without notice.



• ENABLE / DISABLE FUNCTION

| | |
|-------------------------|----------------|
| INH (Pin 1) | OUTPUT (Pin 3) |
| OPEN ² | ACTIVE |
| '1' Level VIH ≥ 70% VDD | ACTIVE |
| '0' Level VIL ≤ 30% VDD | High Z |

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| • TAPE SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|------|-----|-----|-----|-----|-----|--------------|
| MODEL | A | B | C | D | E | F | STD Reel QTY |
| F330 Series | ∅1.5 | 4.0 | 4.0 | 3.5 | 8.0 | 1.3 | 2,000 |

| • REEL SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|------|-----|-----|
| MODEL | G | H | I | J | K | L | M |
| F330 Series | 2.0 | ∅13 | ∅21 | ∅60 | ∅180 | 9.0 | 1.2 |

