



HCMOS 3.2x2.5mm 1.8V SMD Oscillator

Model: F310 Series RoHS Compliant / Pb Free Rev. 7/25/2007

Page 1 of 2

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

Need a Sample®

FEATURES

- 1.8V Operation
- HCMOS Output
- Low Power Consumption
- Standby Function
- Tape and Reel (2,000 pcs. STD)

PRELIMINARY

| • PART NUMBER SELECTION Learn More - Internet Required | | | | |
|--|--------------|----------------------------------|----------------------------|-----------------------|
| Part Number | Model Number | Frequency Stability ¹ | Operating Temperature (°C) | Frequency Range (MHz) |
| 665-Frequency-xxxxx | F310 | ±100 PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 676-Frequency-xxxxx | F310R | ±100 PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 667-Frequency-xxxxx | F315 | ±50 PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 758-Frequency-xxxxx | F315R | ±50 PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 668-Frequency-xxxxx | F316 | ±25 PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 759-Frequency-xxxxx | F316R | ±25 PPM | -40 ~ +85 | 1.800 ~ 50.000 |

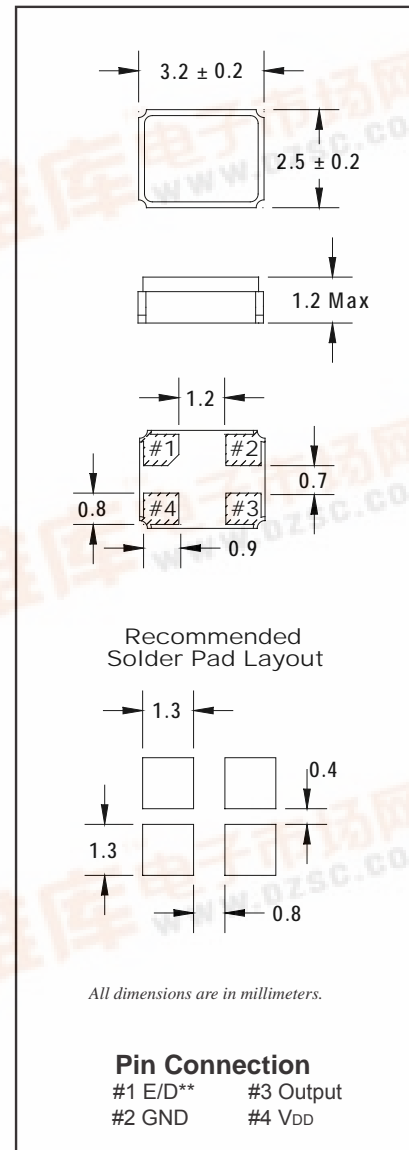
| • ELECTRICAL CHARACTERISTICS | |
|----------------------------------|------------------------------|
| PARAMETERS | MAX (unless otherwise noted) |
| Frequency Range (Fo) | 1.800 ~ 50.000 MHz |
| Temperature Range (TSTG) | |
| Operating | -10°C ~ +70°C |
| Storage | -55°C ~ +125°C |
| Supply Voltage (VDD) | 1.8V ± 5% |
| Input Current (IDD) | |
| 1.800 ~ 32.100 MHz | 7mA |
| 32.100+ ~ 50.000 MHz | 15mA |
| Output Symmetry (50% VDD) | 40% ~ 60% |
| Rise Time(20% ~ 80% VDD) (Tr) | |
| 1.800 ~ 32.100 MHz | 5nS |
| 32.100+ ~ 50.000 MHz | 3.5nS |
| Fall Time (80% ~ 20% VDD) (TF) | |
| 1.800 ~ 32.100 MHz | 5nS |
| 32.100+ ~ 50.000 MHz | 3.5nS |
| Output Voltage (VOL) | 20% VDD |
| (VOH) | 80% VDD Min |
| Output Current (IOL) | 2mA Min |
| (IOH) | -2mA Min |
| Output Load (HCMOS) | 15pF |
| Standby Current | 10µA |
| Start-up Time (Ts) | 10mS |
| Output Disable Time ² | 300nS |
| Output Enable Time ² | 10mS |

¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and 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 |



HCMOS 3.2x2.5mm 1.8V SMD Oscillator



Model: F310 Series

RoHS Compliant / Pb Free

Rev. 7/25/2007

Page 1 of 2

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



| • TAPE SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|------|-----|-----|-----|-----|-----|--------------|
| MODEL | A | B | C | D | E | F | STD Reel QTY |
| F310 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 |
| F310 Series | 2.0 | ∅13 | ∅21 | ∅60 | ∅180 | 9.0 | 1.2 |

