

HCMOS 3.2x2.5mm 2.5V SMD Oscillator



Model: F340 Series

RoHS Compliant / Pb Free

Rev. 4/17/2007

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FEATURES

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

PRELIMINARY

• PART NUMBER SELECTION

| Part Number | Model Number | Frequency Stability ¹ | Operating Temperature (°C) | Frequency Range (MHz) |
|---------------------|--------------|----------------------------------|----------------------------|-----------------------|
| 639-Frequency-xxxxx | F340 | ±100PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 643-Frequency-xxxxx | F340R | ±100PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 640-Frequency-xxxxx | F345 | ±50PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 644-Frequency-xxxxx | F345R | ±50PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 641-Frequency-xxxxx | F346 | ±25PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 645-Frequency-xxxxx | F346R | ±25PPM* | -40 ~ +85 | 1.800 ~ 50.000 |
| 642-Frequency-xxxxx | F348 | ±20PPM* | -10 ~ +70 | 1.800 ~ 50.000 |

• ELECTRICAL CHARACTERISTICS

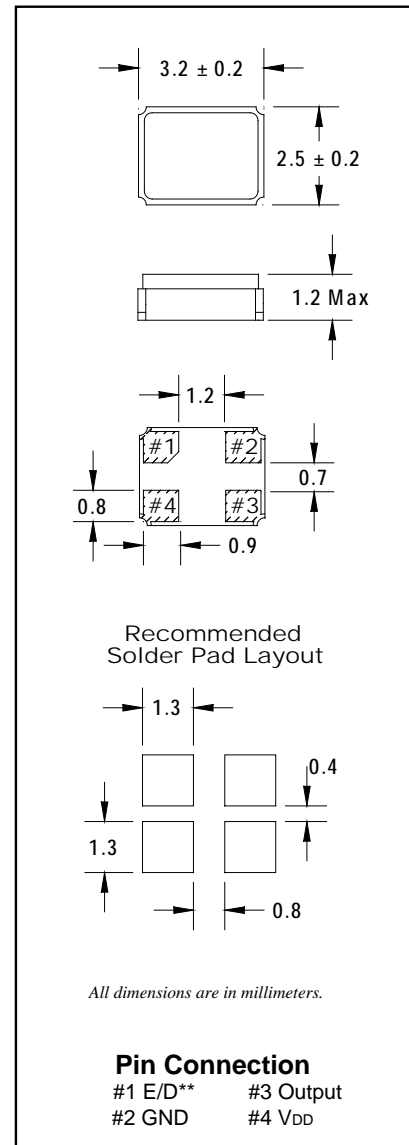
| PARAMETERS | MAX (unless otherwise noted) |
|----------------------------------|------------------------------|
| Frequency Range (Fo) | 1.800 ~ 50.000 MHz |
| Storage Temperature Range (TSTG) | -55°C ~ +125°C |
| Supply Voltage (VDD) | 2.5V ± 5% |
| Input Current (IDD) | 20mA |
| Output Symmetry (50% 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 |

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 |
| F340 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 |
| F340 Series | 2.0 | ∅13 | ∅21 | ∅60 | ∅180 | 9.0 | 1.2 |

