

HCMOS 5x3.2mm 5.0V SMD Oscillator



Model: F550L SERIES

RoHS Compliant / Pb Free

Rev. 7/23/2007

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FEATURES

- 5.0V Operation
- HCMOS Output
- Tape and Reel (2,000 pcs. STD)

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

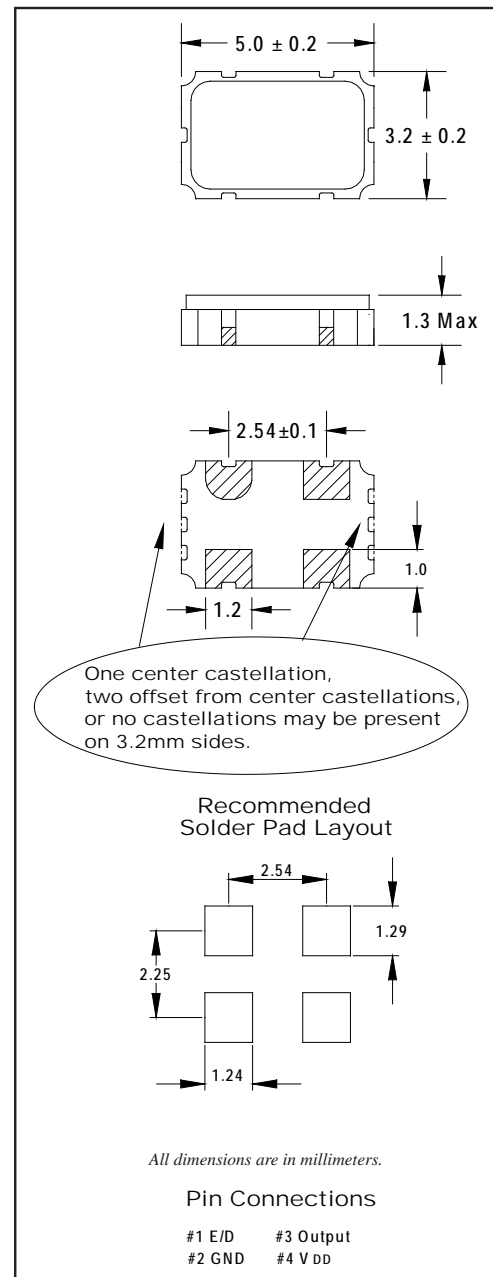
| Part Number | Model Number | Frequency Stability ¹ | Operating Temperature (°C) | Frequency Range (MHz) |
|---------------------|--------------|----------------------------------|----------------------------|-----------------------|
| 477-Frequency-xxxxx | F550L | ±100PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 478-Frequency-xxxxx | F550LR | ±100PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 479-Frequency-xxxxx | F555L | ±50PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 675-Frequency-xxxxx | F555LR | ±50PPM | -40 ~ +85 | 1.800 ~ 50.000 |
| 494-Frequency-xxxxx | F556L | ±25PPM | -10 ~ +70 | 1.800 ~ 50.000 |
| 608-Frequency-xxxxx | F558L | ±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 (T _{STG}) | -55°C ~ +125°C |
| Supply Voltage (V _{DD}) | 5.0V ± 5% |
| Input Current (I _{DD}) | |
| 1.800 ~ 50.000 MHz | 35mA |
| Output Symmetry (50% V _{DD}) | 40% ~ 60% |
| Rise Time (10% ~ 90% V _{DD}) (T _R) | 10nS |
| Fall Time (90% ~ 10% V _{DD}) (T _F) | 10nS |
| Output Voltage (V _{OL}) | 10% V _{DD} |
| (V _{OH}) | 90% V _{DD} Min |
| Output Current (I _{OL}) | 4mA Min |
| (I _{OH}) | 4mA Min |
| Output Load (HCMOS) | 15pF |
| Start-up Time (T _S) | 10mS |
| Output Disable Time ² | 100nS |
| Output Enable Time ² | 100nS |

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. All specifications subject to change without notice.



• ENABLE / DISABLE FUNCTION

| INH (Pin 1) | OUTPUT (Pin 3) |
|---|----------------|
| OPEN ² | ACTIVE |
| '1' Level V _{IH} ≥ 70% V _{DD} | ACTIVE |
| '0' Level V _{IL} ≤ 30% V _{DD} | High Z |

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| • TAPE SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|------|-----|-----|-----|------|-----|--------------|
| MODEL | A | B | C | D | E | F | STD Reel QTY |
| F550L Series | ∅1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 2.5 | 2,000 |

| • REEL SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|------|------|-----|
| MODEL | G | H | I | J | K | L | M |
| F550L Series | 2.0 | ∅13 | ∅21 | ∅80 | ∅250 | 13.5 | 2.0 |

