

# HCMOS 5x3.2mm 3.3V SMD Oscillator



Model: F530L SERIES

RoHS Compliant / Pb Free

Rev. 5/7/2009

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## FEATURES

- 3.3V Operation
- Standby Function
- Tape and Reel (1,000 pcs. STD)

## OPTIONS

- 5.0V (F550L) Version Available

| • PART NUMBER SELECTION <a href="#">Learn More - Internet Required</a> |              |                                  |                            |                       |
|--|--------------|----------------------------------|----------------------------|-----------------------|
| Part Number  | Model Number | Frequency Stability <sup>1</sup> | Operating Temperature (°C) | Frequency Range (MHz) |
| 474-Frequency-xxxxx  | F530L        | ±100PPM                          | -10 ~ +70                  | 1.544 ~ 155.520       |
| 475-Frequency-xxxxx  | F530LR       | ±100PPM                          | -40 ~ +85                  | 1.544 ~ 155.520       |
| 476-Frequency-xxxxx  | F535L        | ±50PPM                           | -10 ~ +70                  | 1.544 ~ 155.520       |
| 550-Frequency-xxxxx  | F535LR       | ±50PPM                           | -40 ~ +85                  | 1.544 ~ 155.520       |
| 492-Frequency-xxxxx  | F536L        | ±25PPM                           | -10 ~ +70                  | 1.544 ~ 155.520       |
| 636-Frequency-xxxxx  | F536LR       | ±25PPM*                          | -40 ~ +85                  | 1.544 ~ 155.520       |
| 546-Frequency-xxxxx  | F538L        | ±20PPM*                          | -10 ~ +70                  | 1.544 ~ 77.760        |

| • ELECTRICAL CHARACTERISTICS     |                              |
|----------------------------------|------------------------------|
| PARAMETERS                       | MAX (unless otherwise noted) |
| Frequency Range (Fo)             | 1.544 ~ 155.520 MHz          |
| Storage Temperature Range (TSTG) | -55°C ~ +125°C               |
| Supply Voltage (VDD)             | 3.3V ± 10%                   |
| Input Current (IDD)              |                              |
| 1.544 ~ 32.000 MHz               | 15mA                         |
| 32.000+ ~ 50.000 MHz             | 20mA                         |
| 50.000+ ~ 67.000 MHz             | 25mA                         |
| 67.000+ ~ 155.520 MHz            | 40mA                         |
| Output Symmetry (50% VDD)        | 40% ~ 60%                    |
| Rise Time (10% ~ 90% VDD) (TR)   | 7nS                          |
| Fall Time (90% ~ 10% VDD) (TF)   | 7nS                          |
| 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)               | 10mS                         |
| Output Disable Time <sup>2</sup> | 150nS                        |
| Output Enable Time <sup>2</sup>  | 10mS                         |
| Reflow Soldering Temp            | 260°C / 10 Seconds           |
| Moisture Sensitivity Level (MSL) | 1                            |
| Termination Finish               | Au                           |

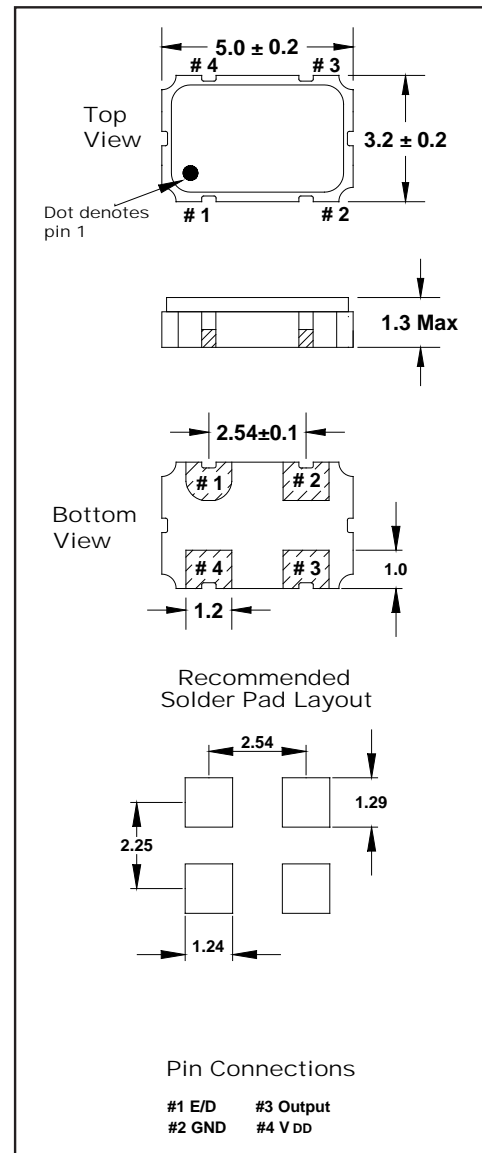
<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. \*Excludes Shock/Vibration

<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.



| • 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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| • TAPE SPECIFICATIONS (millimeters) |      |     |     |     |      |     |              |
|-------------------------------------|------|-----|-----|-----|------|-----|--------------|
| MODEL                               | A    | B   | C   | D   | E    | F   | STD Reel QTY |
| F530L Series                        | Ø1.5 | 4.0 | 8.0 | 5.5 | 12.0 | 1.5 | 1,000        |

| • REEL SPECIFICATIONS (millimeters) |     |     |     |     |      |      |     |
|-------------------------------------|-----|-----|-----|-----|------|------|-----|
| MODEL                               | G   | H   | I   | J   | K    | L    | M   |
| F530L Series                        | 2.0 | Ø13 | Ø21 | Ø62 | Ø180 | 13.5 | 2.0 |

