



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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 [Learn More - Internet Required](#)

| Part Number | Model Number | Frequency Stability ¹ | 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 ² | 150nS |
| Output Enable Time ² | 10mS |
| Reflow Soldering Temp | 260°C / 10 Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au |

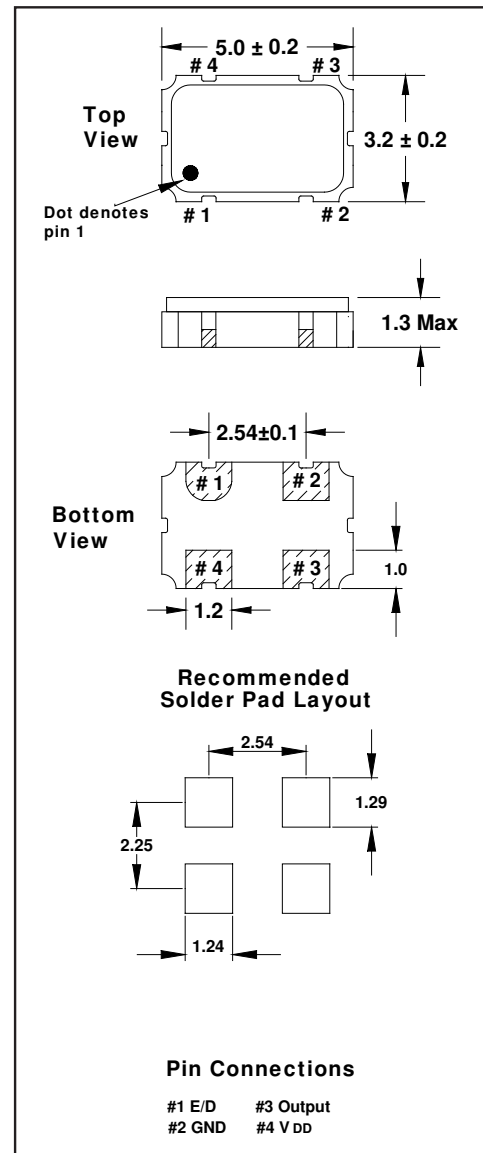
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. *Excludes Shock/Vibration

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.

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 ² | ACTIVE |
| '1' Level VIH ≥ 70% VDD | ACTIVE |
| '0' Level VIL ≤ 30% VDD | High Z |

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Need a
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| • TAPE SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|------|-----|-----|-----|------|-----|--------------|
| MODEL | A | B | C | D | E | F | STD Reel QTY |
| F530L Series | ∅1.5 | 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 | ∅13 | ∅21 | ∅62 | ∅180 | 13.5 | 2.0 |

