

# HCMOS 3.2x2.5mm 3.3V SMD Oscillator



Model: F337/F339 Series

RoHS Compliant / Pb Free

Rev. 8/24/2011

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## FEATURES

- 3.3V Operation
- HCMOS Output
- Standby Function
- Tape and Reel (2,000 pcs. STD)

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

Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz)
826B-Frequency-xxxxx	F337F	±15PPM	-20 ~ +70	4.000 ~ 54.000
826C-Frequency-xxxxx	F337R	±15PPM	-40 ~ +85	4.000 ~ 54.000
826-Frequency-xxxxx	F339F	±10PPM	-20 ~ +70	4.000 ~ 54.000
826A-Frequency-xxxxx	F339R	±10PPM	-40 ~ +85	4.000 ~ 54.000

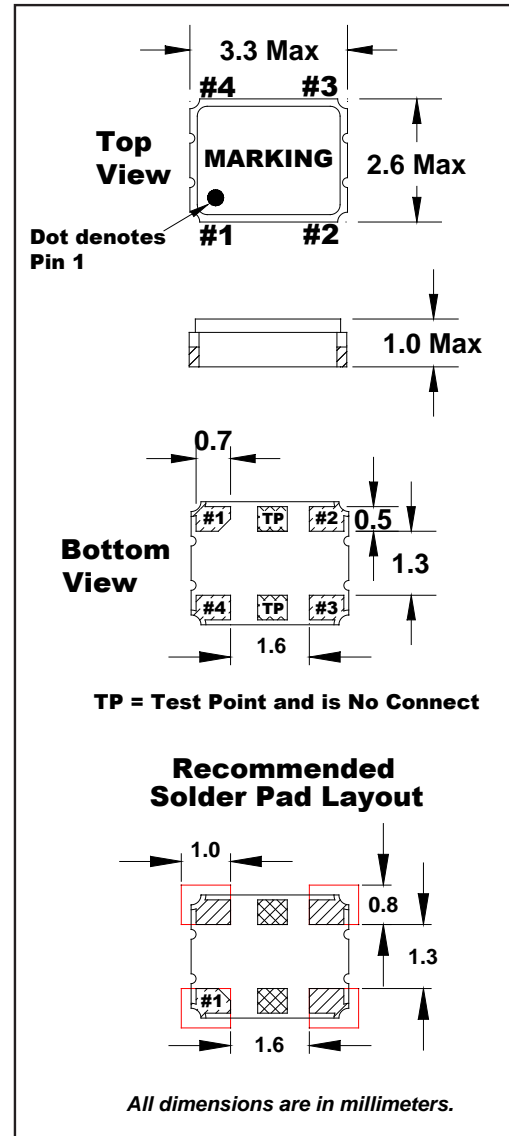
## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	4.000 ~ 54.000 MHz
Storage Temperature Range (T <sub>STG</sub> )	-40°C ~ +85°C
Supply Voltage (V <sub>DD</sub> )	3.3V ± 5%
Input Current (I <sub>DD</sub> )	7mA
Output Symmetry (50% V <sub>DD</sub> )	45% ~ 55%
Rise Time (10% ~ 90% V <sub>DD</sub> )	5nS
Fall Time (90% ~ 10% V <sub>DD</sub> )	5nS
Output Voltage (V <sub>OL</sub> )	10% V <sub>DD</sub>
(V <sub>OH</sub> )	90% V <sub>DD</sub> Min
Output Current (I <sub>OL</sub> )	4mA Min
(I <sub>OH</sub> )	-4mA Min
Output Load (HCMOS)	15pF
Standby Current (I <sub>STD</sub> )	10µA
Start-up Time (T <sub>s</sub> )	10mS
Output Disable Time <sup>2</sup>	250nS
Output Enable Time <sup>2</sup>	10mS
Phase Noise (@ 10kHz offset)	-145dBc/Hz Typ.
Period Jitter	3pS RMS Typ.
Reflow Soldering Temp / Time	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, reflow and one year aging.

<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 V<sub>DD</sub> (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 V <sub>IH</sub> ≥ 70% V <sub>DD</sub>	ACTIVE
'0' Level V <sub>IL</sub> ≤ 30% V <sub>DD</sub>	High Z

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Need a  
Sample®

• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
F337/F339	Ø1.5	4.0	4.0	3.5	8.0	1.4	2,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
F337/F339	2.5	Ø13	Ø22	Ø60.2	Ø178	8.0	1.6

