

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 ¹	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 _{STG})	-40°C ~ +85°C
Supply Voltage (V _{DD})	3.3V ± 5%
Input Current (I _{DD})	7mA
Output Symmetry (50% V _{DD})	45% ~ 55%
Rise Time (10% ~ 90% V _{DD})	5nS
Fall Time (90% ~ 10% V _{DD})	5nS
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
Standby Current (I _{STD})	10μA
Start-up Time (T _s)	10mS
Output Disable Time ²	250nS
Output Enable Time ²	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

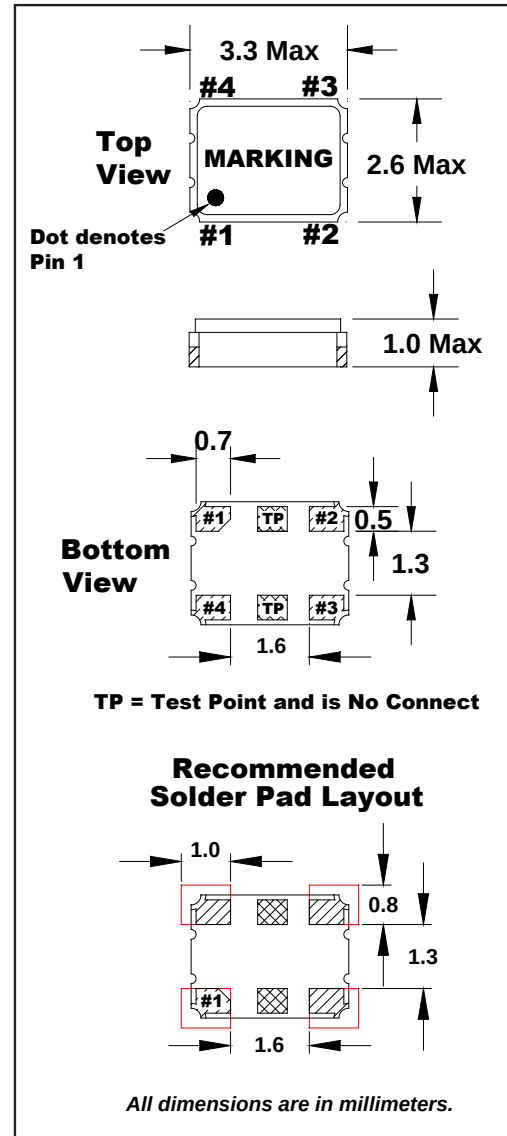
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow and one year aging.

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 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
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

