

# HCMOS 5x3.2mm 3.3V SMD Oscillator



Model: F537 / F539 SERIES

RoHS Compliant / Pb Free

Rev. 7/2/2008

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## FEATURES

- 3.3V Operation
- HCMOS Output
- Low Power Consumption
- Tape and Reel (1,000 pcs. STD)

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

Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz)
807A-Frequency-xxxxx	F537	±15PPM	-20 ~ +70	4.000 - 54.000
807C-Frequency-xxxxx	F537R	±15PPM	-40 ~ +85	4.000 - 54.000
808A-Frequency-xxxxx	F539	±10PPM	-20 ~ +70	4.000 - 54.000
808C-Frequency-xxxxx	F539R	±10PPM	-40 ~ +85	4.000 - 54.000
812A-Frequency-xxxxx	F53S	±8PPM	-20 ~ +70	4.000 - 54.000
812C-Frequency-xxxxx	F53SR	±8PPM	-40 ~ +85	4.000 - 54.000

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	4.000 ~ 54.000 MHz
Storage Temperature Range (TSTG)	-40°C ~ +85°C
Supply Voltage (VDD)	3.3V ± 5%
Input Current (IDD)	7mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (Tr)	5nS
Fall Time (90% ~ 10% VDD) (Tf)	5nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	4mA Min
(IOH)	-4mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	10mS
Output Disable Time <sup>2</sup>	100nS
Output Enable Time <sup>2</sup>	10mS
Phase Noise	-140Bc/Hz Typ. @ 10kHz offset
Period Jitter	3pS RMS Typ.
Maximum 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.

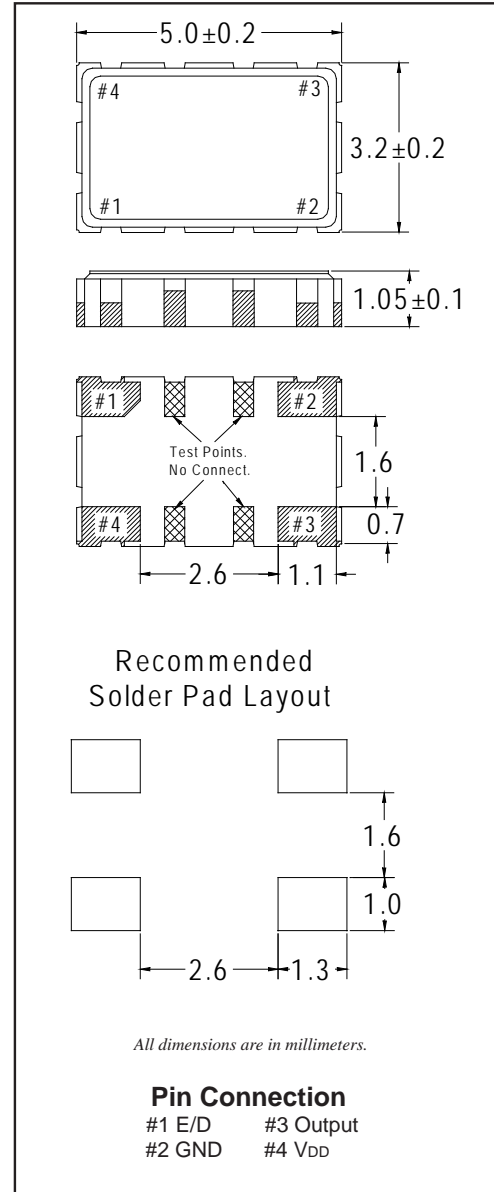
<sup>2</sup> An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Notes:

\*A 0.01µF capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise.

\*Dimensional 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

Pin 1	OUTPUT (Pin 3)
OPEN	ACTIVE
'1' Level $V_{IH} \geq 70\% V_{DD}$	ACTIVE
'0' Level $V_{IL} \leq 30\% V_{DD}$	High Z

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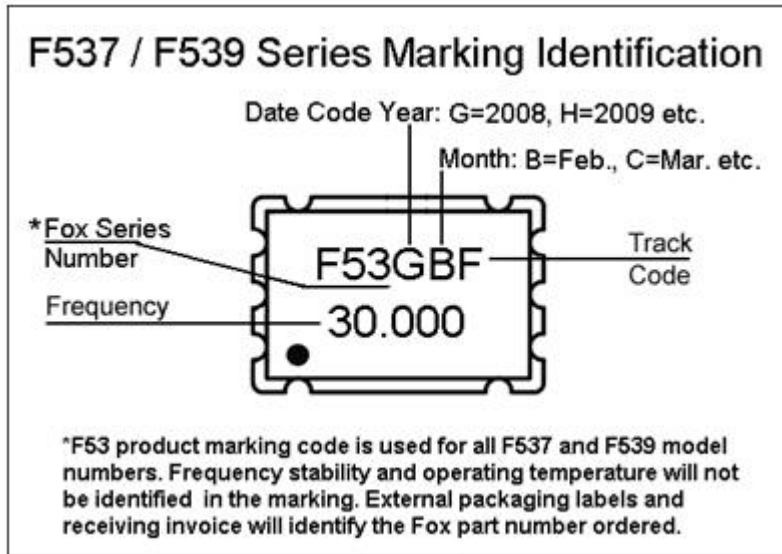
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#### • TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F537/539 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
F537/539 Series	2.0	Ø13	Ø20.2	Ø62	Ø180	13.5	1.6

