

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 ¹	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 (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}) (T _R)	5nS
Fall Time (90% ~ 10% V _{DD}) (T _F)	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	10µA
Start-up Time (T _s)	10mS
Output Disable Time ²	100nS
Output Enable Time ²	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

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

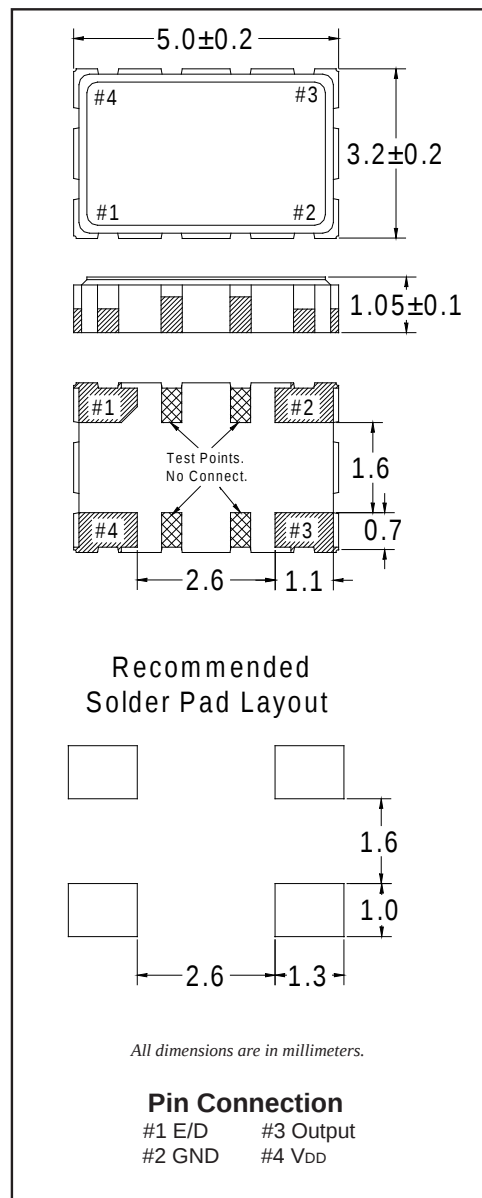
² An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Notes:

*A 0.01µF capacitor should be placed between V_{DD} (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} ≥ 70% V _{DD}	ACTIVE
'0' Level V _{IL} ≤ 30% V _{DD}	High Z

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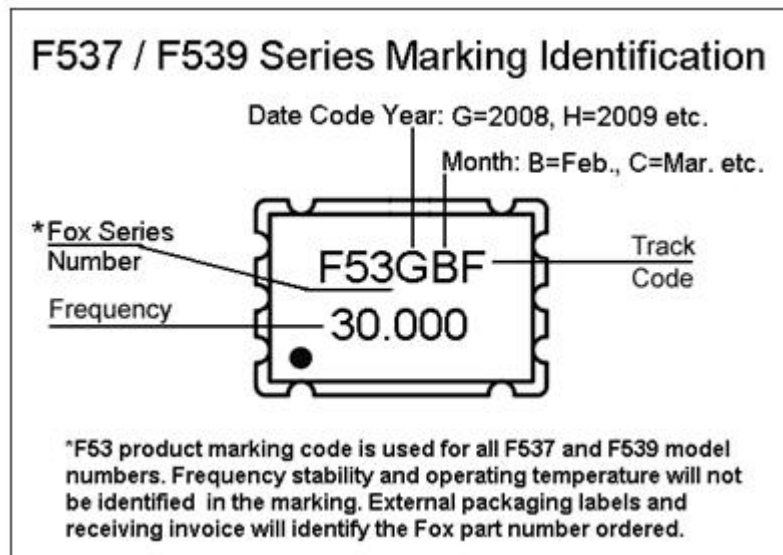
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• TAPE SPECIFICATIONS (millimeters)

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

