

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

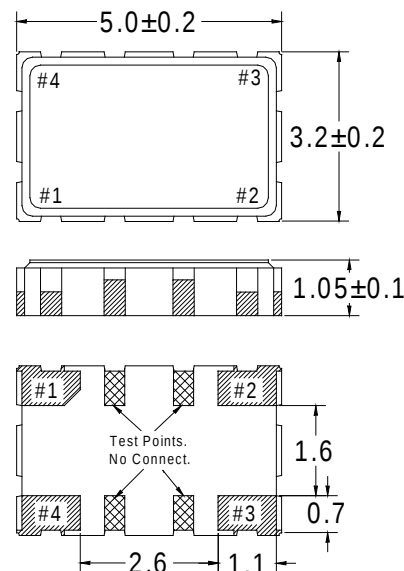
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, and one year aging.

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

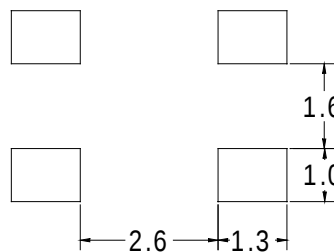
Notes:

*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.



Recommended Solder Pad Layout



All dimensions are in millimeters.

Pin Connection

#1 E/D #3 Output
#2 GND #4 V_{DD}

• 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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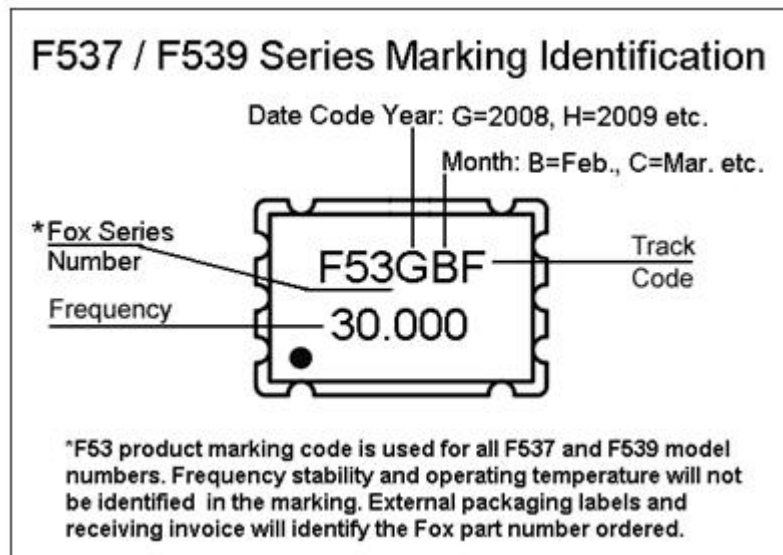
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• TAPE SPECIFICATIONS (millimeters)

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

