HCMOS 5x3.2mm 2.5V SMD Oscillator

Model: F547 / F549 SERIES **RoHS Compliant / Pb Free** **Rev. 7/2/2008**

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FEATURES

- 2.5V 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 (ºC)	Frequency Range (MHz)
809A-Frequency-xxxxx	F547	±15PPM	-20 ~ +70	4.000 - 54.000
809C-Frequency-xxxxx	F547R	±15PPM	-40 ~ +85	4.000 - 54.000
810A-Frequency-xxxxx	F549	±10PPM	-20 ~ +70	4.000 - 54.000
810C-Frequency-xxxxx	F549R	±10PPM	-40 ~ +85	4.000 - 54.000
813A-Frequency-xxxxx	F54S	±8PPM	20 ~ +70	4.000 - 54.000
813C-Frequency-xxxxx	F54SR	±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)	-40ºC ~ +85ºC
Supply Voltage (VDD)	2.5V ± 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) (VOH)	10% VDD 90% VDD Min
Output Current (IOL) (IOH)	4mA Min -4mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	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	260ºC / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

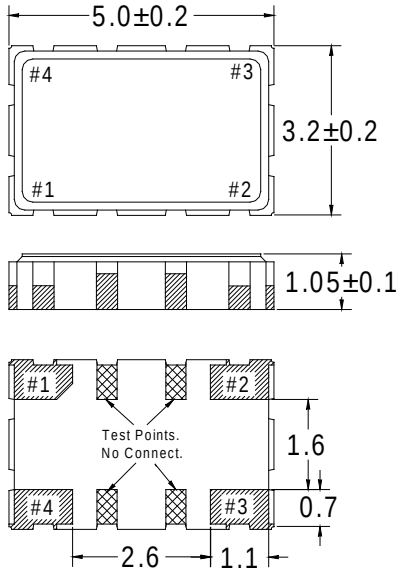
[1] Inclusive of 25ºC tolerance, operating temperature range, input voltage change, load change, reflow, and one year aging.

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

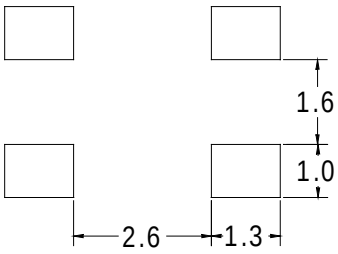
Notes:

*A 0.01µF capacitor should be placed between 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.



Recommended Solder Pad Layout



All dimensions are in millimeters.

Pin Connection

#1 E/D	#3 Output
#2 GND	#4 VDD

• ENABLE / DISABLE FUNCTION

Pin 1	OUTPUT (Pin 3)
OPEN	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

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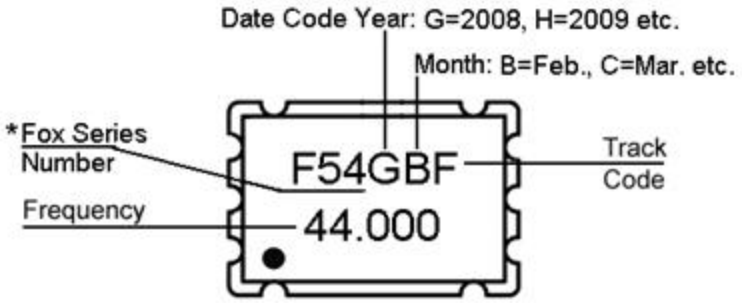
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F547 / F549 Series Marking Identification



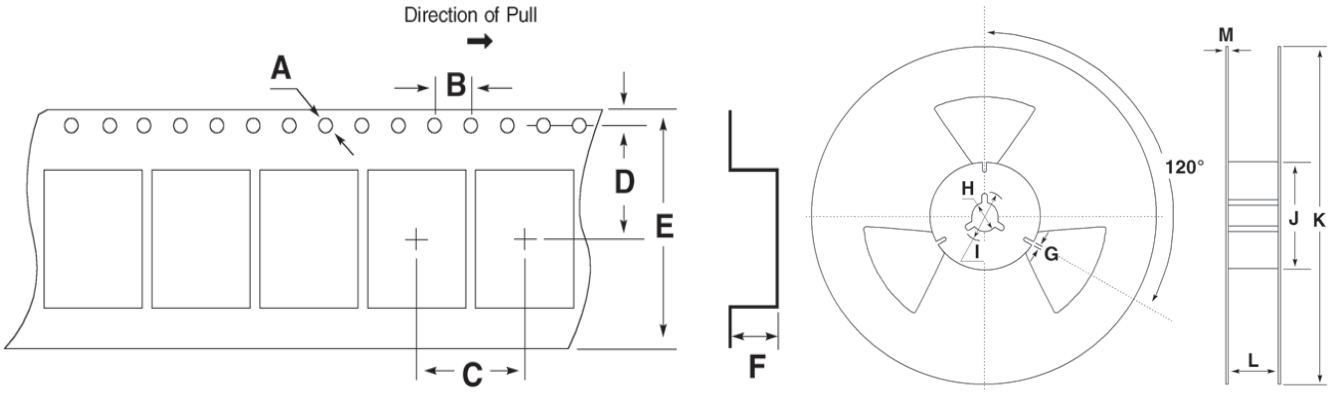
*F54 product marking code is used for all F547 and F549 model numbers. Frequency stability and operating temperature will not be identified in the marking. External packaging labels and receiving invoice will identify the Fox part number ordered.

• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F537/549 Series	∅1.5	4.0	8.0	5.5	12.0	1.5	1,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
F547/549 Series	2.0	∅13	∅20.2	∅62	∅180	13.5	1.6



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