

# HCMOS, 7.5x5mm, 2.85V SMD Oscillator

Model: F4300 SERIES

RoHS Compliant / Pb Free

Rev. 2/25/2008

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## FEATURES

- 2.85V 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	Operating Temperature (°C)	Frequency Range (MHz)
487-Frequency-xxxxx	F4300	±100PPM	-10 ~ +70	1.544 ~ 80.000
604-Frequency-xxxxx	F4300R	±100PPM	-40 ~ +85	1.544 ~ 80.000
488-Frequency-xxxxx	F4305	±50PPM	-10 ~ +70	1.544 ~ 80.000
605-Frequency-xxxxx	F4305R	±50PPM	-40 ~ +85	1.544 ~ 80.000
473-Frequency-xxxxx	F4306	±25PPM	-10 ~ +70	1.544 ~ 80.000
606-Frequency-xxxxx	F4306R	±25PPM*	-40 ~ +85	1.544 ~ 80.000
489-Frequency-xxxxx	F4308	±20PPM*	-10 ~ +70	1.544 ~ 80.000

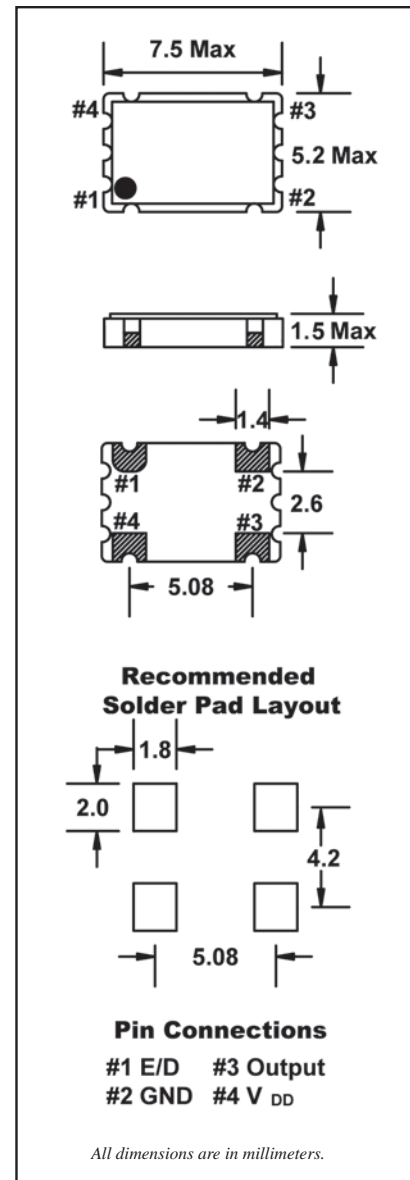
## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.544 ~ 80.000 MHz
Temperature Range (Tstg)	-55°C ~ +125°C
Supply Voltage (VDD)	2.85V ± 5%
Input Current (IDD)	
1.544 ~ 32.000 MHz	15mA
32.000+ ~ 50.000 MHz	20mA
50.000+ ~ 67.000 MHz	25mA
67.000+ ~ 80.000 MHz	30mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (Tr)	
1.544 ~ 50.000 MHz	6nS
50.000 ~ 80.000 MHz	4nS
Fall Time (90% ~ 10% VDD) (Tf)	
1.544 ~ 50.000 MHz	6nS
50.000 ~ 80.000 MHz	4nS
Output Voltage (IOL = 2mA) (VOL)	10% VDD
(IOH = 2mA) (VOH)	90% VDD Min
Output Current (VOL = 10% VDD) (IOL)	2mA
(VOH = 90% VDD) (IOH)	-2mA
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	10mS
Output Disable Time <sup>2</sup>	150nS
Output Enable Time <sup>2</sup>	10mS

<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. \*Excludes Shock/Vibration

<sup>2</sup> 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 <sup>2</sup>	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

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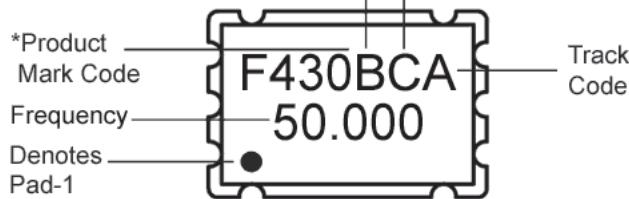
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## F4300 Series Marking Identification

Models: F4300, F4300R, F4305, F4305R, F4306, F4306R, F4308

Date Code: Year: A=2002, B=2003, etc.  
Month: A=Jan, B=Feb, etc.



\*F430 product marking code used for all F4300 model numbers. Frequency stability and operating temperature will not be identified from marking. External packaging labels and receiving invoice will correctly identify ordered Fox part number.

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### • TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F4300 Series	∅1.5	4.0	8.0	7.5	16.0	2.15	2,000

### • REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
F4300 Series	2.0	∅13	∅21	∅80	∅255	17.5	2.0

