

# HCMOS, 7.5x5mm, 2.5V, SMD Oscillator



Model: F4400 SERIES

RoHS Compliant / Pb Free

Rev. 2/25/2008

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Need a Sample®

## FEATURES

- 2.5V Operation
- HCMOS Output
- Low Power Consumption
- Standby Function
- Tape and Reel (2,000 pcs. STD)

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

Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz)
521-Frequency-xxxxx	F4400	±100PPM	-10 ~ +70	1.800 ~ 125.000
522-Frequency-xxxxx	F4400R	±100PPM	-40 ~ +85	1.800 ~ 125.000
523-Frequency-xxxxx	F4405	±50PPM	-10 ~ +70	1.800 ~ 125.000
524-Frequency-xxxxx	F4405R	±50PPM	-40 ~ +85	1.800 ~ 125.000
525-Frequency-xxxxx	F4406	±25PPM	-10 ~ +70	1.800 ~ 65.000
526-Frequency-xxxxx	F4406R	±25PPM*	-40 ~ +85	1.800 ~ 50.000
527-Frequency-xxxxx	F4408	±20PPM*	-10 ~ +70	1.800 ~ 50.000

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.800 ~ 125.000 MHz
Storage Temperature Range (Tstg)	-55°C ~ +125°C
Supply Voltage (VDD)	2.5V ± 5%
Input Current (IDD)	
1.800 ~ 32.100 MHz	10mA
32.100+ ~ 50.000 MHz	12mA
50.000+ ~ 125.000 MHz	60mA
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>	150nS
Output Enable Time <sup>2</sup>	10mS

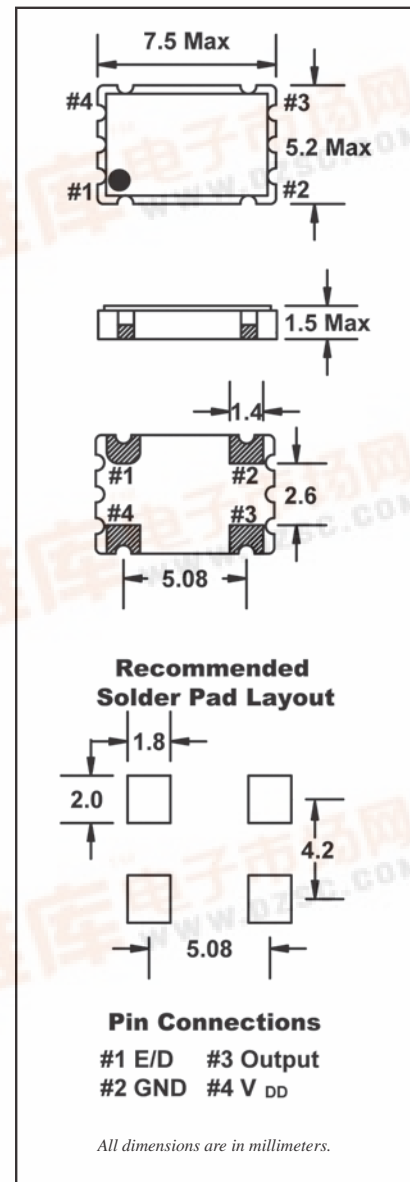
<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. \*Excludes Shock/Vibration

<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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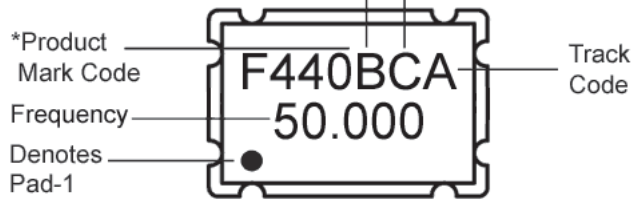
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## F4400 Series Marking Identification

Models: F4400, F4400R, F4405, F4405R, F4406, F4406R, F4408

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



\*F440 product marking code used for all F4400 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
F4400 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
F4400 Series	2.0	∅13	∅21	∅80	∅255	17.5	2.0

