HCMOS, 7.5x5mm, 1.8V, SMD Oscillator

Model: F4500 SERIES **RoHS Compliant / Pb Free** **Rev. 2/25/2008**

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FEATURES

- 1.8V 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[1]	Operating Temperature (ºC)	Frequency Range (MHz)
528-Frequency-xxxxx	F4500	±100PPM	-10 ~ +70	1.800 ~ 125.000
529-Frequency-xxxxx	F4500R	±100PPM	-40 ~ +85	1.800 ~ 125.000
530-Frequency-xxxxx	F4505	±50PPM	-10 ~ +70	1.800 ~ 125.000
531-Frequency-xxxxx	F4505R	±50PPM	-40 ~ +85	1.800 ~ 125.000
532-Frequency-xxxxx	F4506	±25PPM	-10 ~ +70	1.800 ~ 65.000
533-Frequency-xxxxx	F4506R	±25PPM*	-40 ~ +85	1.800 ~ 50.000
534-Frequency-xxxxx	F4508	±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)	-55ºC ~ +125ºC
Supply Voltage (VDD)	1.8V ± 5%
Input Current (IDD)	
1.000 ~ 32.100 MHz	7mA
32.100+ ~ 70.000 MHz	15mA
Output Symmetry (50% VDD)	40% ~ 60%
Rise Time (20% ~ 80% VDD) (TR)	
1.800 ~ 32.100 MHz	5nS
32.100+ ~ 70.000 MHz	3.5nS
Fall Time (80% ~ 20% VDD) (TF)	
1.800 ~ 32.100 MHz	5nS
32.100+ ~ 70.000 MHz	3.5nS
Output Voltage (VOL)	20% VDD
(VOH)	80% VDD Min
Output Current (IOL)	2mA Min
(IOH)	2mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (TS)	10mS
Output Disable Time [2]	300nS
Output Enable Time [2]	10mS

[1] Inclusive of 25ºC tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. *Excludes Shock/Vibration

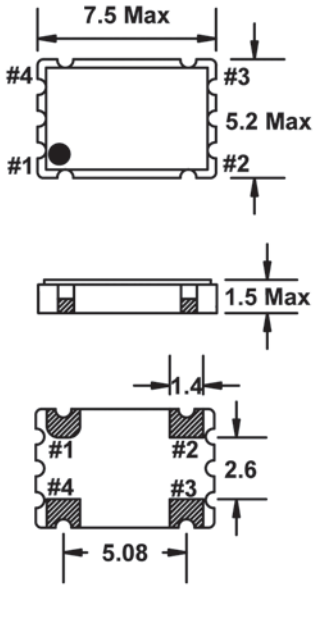
[2] An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise.

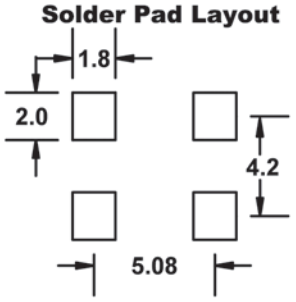
Drawing is for reference to critical specifications defined by size measurements.

Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary.

All specifications subject to change without notice.



Recommended Solder Pad Layout



Pin Connections

#1 E/D #3 Output
#2 GND #4 V DD

All dimensions are in millimeters.

• ENABLE / DISABLE FUNCTION

INH (Pin 1)	OUTPUT (Pin 3)
OPEN [2]	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

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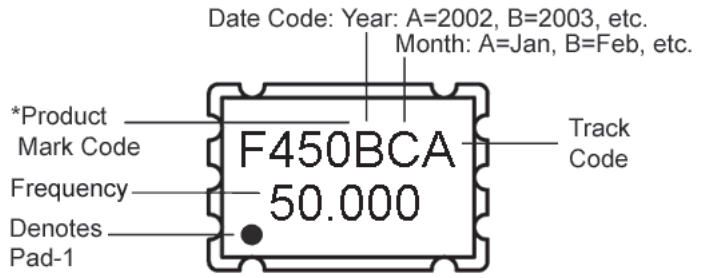
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F4500 Series Marking Identification

Models: F4500, F4500R, F4505, F4505R, F4506, F4506R, F4508



*F450 product marking code used for all F4500 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.

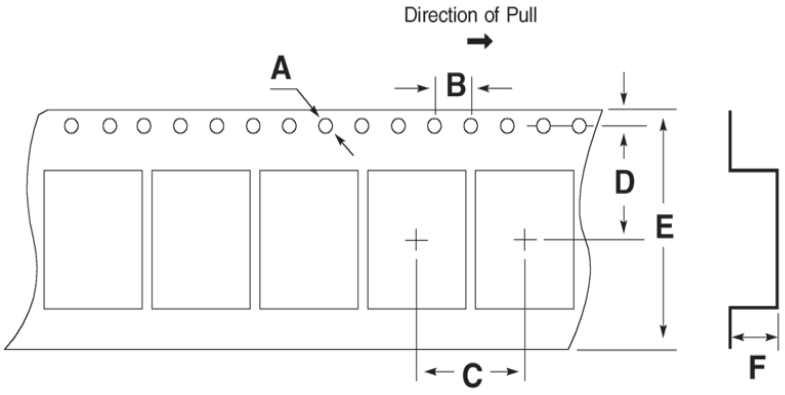
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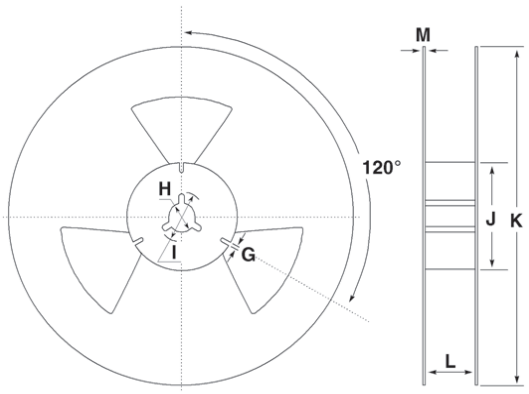
• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F4500 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
F4500 Series	2.0	∅13	∅21	∅80	∅255	17.5	2.0





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