1.8V HCMOS SMD OSCILLATOR WITH STANDBY
MODEL: F4500 SERIES

FEATURES

- 1.8V Operation
- HCMOS Output
- Low Power Consumption
- Standby Function
- Tape and Reel (2,000 pcs. STD)

Quote it!

• 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 ~ 125.000
533-Frequency-xxxxx	**F4506R**	±25PPM*	-40 ~ +85	1.800 ~ 125.000
534-Frequency-xxxxx	**F4508**	±20PPM*	-10 ~ +70	1.800 ~ 125.000

• 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.

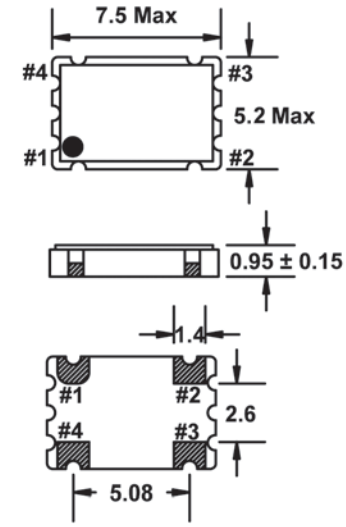
All specifications subject to change without notice. *Rev. 1/24/05*

See page 60 for tape and reel specifications.

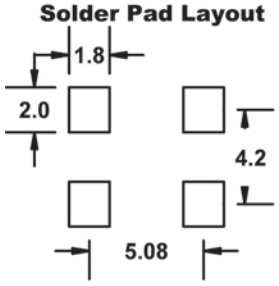
Learn more about:

Part Marking Identification
Tape and Reel Specification
Mechanical Specification

Internet required



Recommended Solder Pad Layout



Pin Connections

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

All dimensions are in millimeters.

• ENABLE / DISABLE FUNCTION

$\overline{INH}$ (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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