

# FOX 3.3V LVDS OSCILLATOR WITH STANDBY MODEL: F4700 SERIES



## FEATURES

- 3.3V Operation
- LVDS Output
- Differential Outputs
- Standby Function
- Tape and Reel (2,000 pcs. STD)

## PRELIMINARY

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

Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz) <sup>2</sup>
703-Frequency-xxxxx	F4700	±100PPM	-10 ~ +70	60.000 ~ 230.000
704-Frequency-xxxxx	F4700R	±100PPM	-40 ~ +85	60.000 ~ 230.000
705-Frequency-xxxxx	F4705	±50PPM	-10 ~ +70	60.000 ~ 230.000
706-Frequency-xxxxx	F4705R	±50PPM	-40 ~ +85	60.000 ~ 170.000
707-Frequency-xxxxx	F4706	±25PPM	-10 ~ +70	60.000 ~ 170.000
708-Frequency-xxxxx	F4706R	±25PPM*	-40 ~ +85	60.000 ~ 170.000
709-Frequency-xxxxx	F4708	±20PPM*	-10 ~ +70	60.000 ~ 170.000

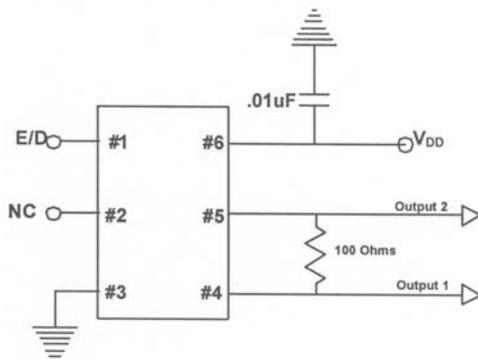
### • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	60.000 ~ 250.000 MHz
Storage Temperature Range (TSTG)	-55°C ~ +125°C
Supply Voltage (VDD)	3.3V ± 5%
Input Current (IDD)	66mA
Differential Output Voltage (VOD) (Out 1 - Out 2)	0.247V ~ 0.454V (0.33V Typical)
Offset Voltage (Vos)	1.125V ~ 1.375V (1.25V Typical)
Differential Output Swing (Vop-p)	0.35Vp-p Min
Output Symmetry (Output Crossing Point)	45% ~ 55%
Rise Time (TR) (20% ~ 80% Vop-p)	0.7nS
Fall Time (TF) (80% ~ 20% Vop-p)	0.7nS
Output Load (Out 1 - Out 2)	100 Ohms Typical
Standby Current	30µA
Start-up Time (Ts)	10mS
Output Disable Time <sup>3</sup>	200nS
Output Enable Time <sup>3</sup>	10mS

<sup>1</sup> Inclusive of operating temperature range, input voltage change, load change, aging, shock, and vibration. (\*F4706R, F4708R: Excludes Shock/Vibration)  
<sup>2</sup> Frequencies up to 250 MHz are available on an inquiry basis.  
<sup>3</sup> An internal pullup resistor from pin 1 to pin 6 allows active output if pin 1 is left open.  
 Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 6) and GND (Pin 3) to minimize power supply line noise.

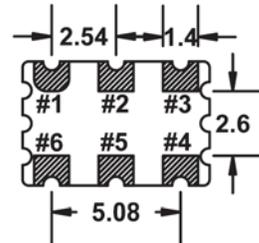
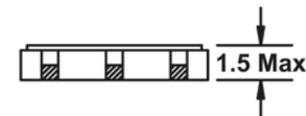
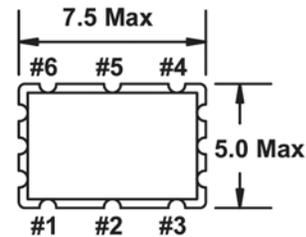
All specifications subject to change without notice. Rev. 9/12/05

#### D. Recommended Circuit

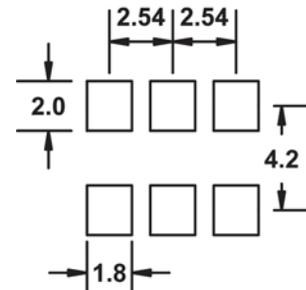


Learn more about:  
[Part Marking Identification](#)  
[Tape and Reel Specification](#)  
[Mechanical Specification](#)

Internet required



#### Recommended Solder Pad Layout



#### Pin Connections

- #1 E/D
- #2 NC
- #3 GND
- #4 Output 1
- #5 Output 2
- #6 VDD

All dimensions are in millimeters.

• ENABLE / DISABLE FUNCTION		
(Pin 1)	OUTPUT (Pin 4)	OUTPUT (Pin 5)
OPEN <sup>3</sup>	ACTIVE	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z	High Z