LVDS 7x5mm 3.3V Oscillator

F4700 SERIES | **RoHS Compliant / Pb Free** | **Rev. 9/24/2012**

http://www.foxonline.com/need_a_sample.htm

Need a Sample®

FEATURES

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

XpressO® Equivalent
FXO-LC73

• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability[1]	Operating Temperature (°C)	Frequency Range (MHz)
703-Frequency-xxxxx	**F4700**	±100PPM	-10 ~ +70	75.000 ~ 270.000
704-Frequency-xxxxx	**F4700R**	±100PPM	-40 ~ +85	75.000 ~ 270.000
705-Frequency-xxxxx	**F4705**	±50PPM	-10 ~ +70	75.000 ~ 270.000
706-Frequency-xxxxx	**F4705R**	±50PPM	-40 ~ +85	75.000 ~ 270.000
707-Frequency-xxxxx	**F4706**	±25PPM	-10 ~ +70	75.000 ~ 270.000
708-Frequency-xxxxx	**F4706R**	±25PPM*	-40 ~ +85	75.000 ~ 170.000
709-Frequency-xxxxx	**F4708**	±20PPM*	-10 ~ +70	75.000 ~ 180.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (FO)	75.000 ~ 270.000 MHz
Storage Temperature Range (TSTG)	-55ºC ~ +125ºC
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% Vp-p)	0.7nS
Fall Time (TF) (80% ~ 20% Vp-p)	0.7nS
Output Load (Out 1 - Out 2)	100 Ohms Typical
Standby Current	30µA
Start-up Time (Ts)	10mS
Output Disable Time [2]	200nS
Output Enable Time [2]	10mS

[1] Inclusive of operating temperature range, input voltage change, load change, aging, shock, and vibration. (*F4706R, F4708R: Excludes Shock/Vibration)

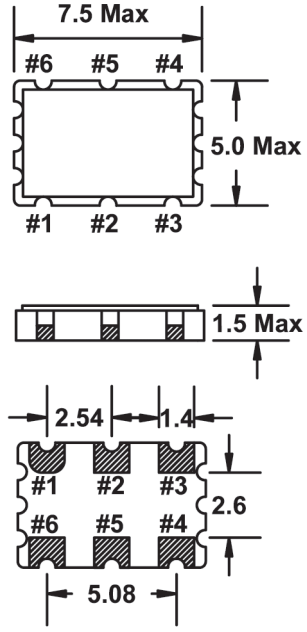
[2] An internal pullup resistor from pin 1 to pin 6 allows active output if pin 1 is left open.

Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 6) and GND (Pin 3) to minimize power supply line noise.

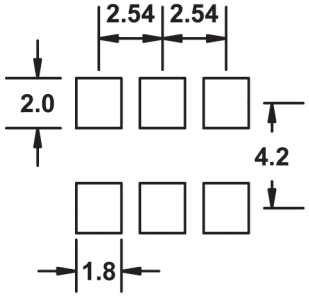
Drawing is for reference to critical specifications defined by size measurements.

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

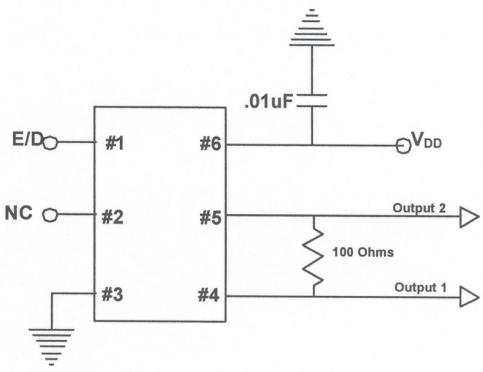


Pin Connections

#1 E/D	#4 Output 1
#2 NC	#5 Output 2
#3 GND	#6 V_{DD}

All dimensions are in millimeters.

D. Recommended Circuit



• ENABLE / DISABLE FUNCTION

(Pin 1)	OUTPUT (Pin 4)	OUTPUT (Pin 5)
OPEN [2]	ACTIVE	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z	High Z

FOXElectronics 5570 Enterprise Parkway Fort Myers, Florida 33905 USA +1.239.693.0099 FAX +1.239.693.1554 www.foxonline.com

EMEA Tel: +44 .1283.568153 | **Canada** +1.888.438.2369 | **Asia** Hong Kong Tel: +852.2854.4285 | **Japan** Tel: +81.3.3374.2079

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