# 5.0V HCMOS Surface Mount Crystal Clock Oscillator 7215, 7225, 7235



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## XO

The Connor-Winfield models 7215, 7225, and 7235 are a 5 x 3.2mm, 5.0V HCMOS, Surface Mount, Fixed Frequency Crystal Oscillators (XO) designed for use in all applications requiring precision clocks. The RoHS compliant, surface mount package is designed for high-density mounting and is optimum for mass production.

### Features:

1.8 to 50 MHz
5.0V Operation
RoHS Compliant
Tri-State Enable / Disable Function
Overall Frequency Tolerance: 7215 ± 25 ppm 7225 ± 50 ppm 7235 ± 100 ppm
Temperature Range: -40 to 85°C
Ceramic Surface Mount Package
Tape and Reel Packaging

#### **Absolute Maximum Ratings**

Parameter	Minimum	Nominal	Maximum	Units	Notes
Storage Temperature	-55	-	125	°C	
Supply Voltage (Vcc)	-0.5	-	7.0	Vdc	

Operating Specifications					
Parameter	Minimum	Nominal	Maximum	Units	Notes
Frequency Range (Fo)	1.8	-	50	MHz	
Frequency Tolerance 7215 7225 7235	-25 -50 -100	- - -	25 50 100	ppm	1
Operating Temp Range	-40	-	85	°C	
Supply Voltage (Vdd)	4.5	5.0	5.5	Vdc	
Supply Current (Icc)	-	-	45	mA	

Input Characteristics					
Parameter	Minimum	Nominal	Maximum	Units	Notes
Enable Voltage - (Vih)	2.2	-	-	Vdc	2
Disable Voltage - (Vil)	-	-	0.8	Vdc	
Enable Time	-	-	100	nS	
Disable Time	-	-	100	nS	

HCMOS Output Characteristics					
Parameter	Minimum	Nominal	Maximum	Units	Notes
Load	-	-	50	pF	
Voltage High (Voh) Low (Vol)	4.50	- -	0.55	Vdc	
Current High (loh) Low (lol)	-16	-	16	mA	
Duty Cycle at 50% of Vcc	40	50	60	%	
Rise / Fall Time 10% to 90%	-	-	5	nS	
Start-Up Time	-	-	10	mS	
Jitter	-	-	5	pS RMS	

#### Notes:

Inclusive of calibration @ 25°C , frequency vs temperature stability, supply voltage change, load change, shock and vibration, 10 years aging.
 Oscillator output is enabled with no connection on pad 1

RoHS COMPLIANT

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