查询"6213"供应商

3.3V LVCMOS Surface Mount Crystal Clock Oscillator 6213, 6223, 6233



XO

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The Connor-Winfield models 6213, 6223, and 6233 are a 6 x 3.5mm, 3.3V LVCMOS, Surface Mount, Ceramic, Fixed Frequency Crystal Oscillators (XO) designed for use in all applictions requiring precision clocks. These oscillators feature low stand-by current (10uA) when the output is disabled. The RoHS compliant, surface mount package is designed for high-density mounting and is optimum for mass production.

WWW.DZSC

Features: 1.8 to 50 MHz

3.3V Operation RoHS Compliant

Tri-State Enable / Disable Function Overall Frequency Tolerance:

6213 ± 25 ppm 6223 ± 50 ppm 6233 ± 100 ppm

Temperature Range: -40 to 85°C Power Saving Stand-By Current Ceramic Surface Mount Package Tape and Reel Packaging

Absolute Maximum Ratings

			3	
Parameter	Minimum	Nominal	Maximum	Units Notes
Storage Temperature	-55		125	°C
Supply Voltage (Vcc)	-0.5	(T) -1 E4	7.0	Vdc

Operating Specifications

Parameter	Minimum	Nominal	Maximum	Units	Notes
Frequency Range (Fo)	1.8	-	50	MHz	
Frequency Tolerance 6213 6223 6233	-25 -50 -100	- - -	25 50 100	ppm	1
Operating Temp Range	-40	-	85	°C	
Supply Voltage (Vdd)	3.0	3.3	3.6	Vdc	150
Supply Current (Icc) 1.80 to 31.999 MHz 32.0 to 50.0 MHz	m l	柱值	12 17	mA	

Input Characteristics					
Parameter	Minimum	Nominal	Maximum	Units	Notes
Enable Voltage - (Vih)	≥ 70% Vdd	-	-	Vdc	2
Disable Voltage - (Vil)	-	-	≤ 30% Vdd	Vdc	
Enable Time	-	-	10	mS	
Disable Time	-	-	150	nS	A
Output Disable Current (Icc)	-	-	10	uA	

ı	LVCMOS Out	put Charact	eristics	ZSC.CO	100
Parameter	Minimum	Nominal	Maximum	Units	Notes
Load	A Fig. 1		15	pF	
Voltage High (Voh) Low (Vol)	2.70	-	0.36	Vdc	
Current High (loh) Low (lol)	-2 -	-	2	mA	
Duty Cycle at 50% of Vcc	45	50	55	%	
Rise / Fall Time 10% to 90%	-	-	5	nS	
Start-Up Time	-	-	10	mS	
Jitter	-	-	5	pS RMS	

Notes:

1. Inclusive of calibration @ 25°C , frequency vs temperature stability, supply voltage change, load change, shock and vibration, 10 years aging. 2. Oscillator output is enabled with no connection on pad 1



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Hermetically sealed ceramic package and metal cover Package

Environmental Characteristics

Package Characteristics

The specimen shall meet electrical characteristics after tested 5 cycles of -55°C / 30 minutes and +125°C / 30 minutes Temperature Cycle

No bubbles appear in Flourinert (FC-43) at 125°C ±5°C for 5 minutes Hermetical

Solvent Resistance Marking will withstand immersion in Isopropyl Alcohol or Trichloroethylene

Soldering

260°C max x 10 sec max x 2 times max or 230°C max x 180 sec max x 1 time General Conditions

Typical Operation Data (Vapor phase reflow) 20 to 100 sec up to 215°C, 50 sec

at 215°C, then down to room temperature per 1 to 5°C / sec

Mechanical Characteristics

The specimen shall meet electrical characteristics after tested 3 times, Free Drop Free Drop testing on the hard wooden board from a height of 75 cm.

The specimen shall meet electrical characteristics after tested by the following conditions: 10-55Hz 1.5mm Amplitude, 55-2000 Hz 20 G's, 2 hours for each plane Vibration

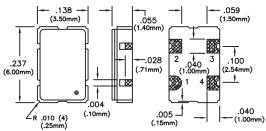
Thermal Shock

After applied Thermal Shock of 260°C max x 10 sec max x 2 times, or 230°C max x 180 sec max, the specimen shall meet electrical characteristics

Solderability

(EIAJ-RCX-0102.101 Condition 1a)
) Flux: MIL-F-14256 (WW Rosin=25%, Isopropyl Alcohol = 75%)
) Solder: QQ-S-571 (Sn = 63%, Pb = 37%)
) Solder bath temperature: 235°C ±5°C
) Depth of immersion: Up to electrical terminal
) Immersing time: Within 2 sec ±0.5 sec into solder bath

After performing the above procedures, a newly soldered coverage shall be greater than 90%



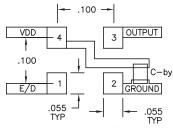
Dimensional Tolerance: ±.008 (.20mm)

3.000 PCS/Reel

Pad Connection

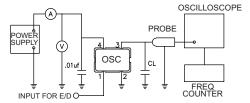
- Tri-State E/D
- Ground
- 3: Output
- **VDD**

Suggested Pad Layout

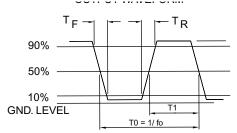


Bypass capacitor, C-by, should be ceramic capacitor ≥ .01uf.

Test Circuit

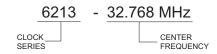


Output Waveform



SYMMETRY=(T1/T0)X100%

Ordering Information



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Tape and Reel Dimensions	
9,85 9,85 9,85 9,85	5308
Meets EIA-481A and EIAJ-1009B	±.005"(.127mm)