

X series oscillators

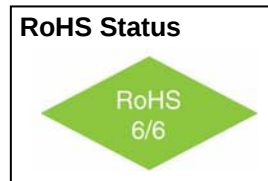
XO – Ultra Low Power

3.2x2.5mm SMD, CMOS

Widely used for the telecommunications, Aerospace, defense and Military Industries.

Features

- > 0.8MHz to 90MHz Frequency Range
- > 2.5V Supply Voltage
- > Tight symmetry
- > Low jitter
- > Low power consumption



Applications

- > Portable Communications
- > Test & Measurement
- > Gigabit Ethernet

Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F	2.5V	0.8		90	MHz	
Frequency Stability	$\Delta F/F$	Over all conditions of Operating Temperature; Supply Voltage; 10 Years Aging; shock & vibration	± 10	± 25	± 50	ppm	
Operating Temperature	T		-55		+125°	°C	
Output			HCMOS 15pF				
Supply Voltage	V _{cc}		2.25	2.50	2.75	V	
Supply Current	I _{cc} MAX		8		20	mA	Max Current across entire temp range
TRISTATE		Output Active Output in High Imp. State	0.7		0.3	V	

Environmental and Mechanical

Parameter	Specification
Mechanical Shock	Per MIL-STD-202, Method 213, Condition E
Thermal Shock	Per MIL-STD-883, Method 1011, Condition A
Vibration	Per MIL-STD-883, Method 2007, Condition A
Soldering Conditions	260°C for 10s max
Hermetic Seal	Per MIL-STD-883, Method 1014, Condition A

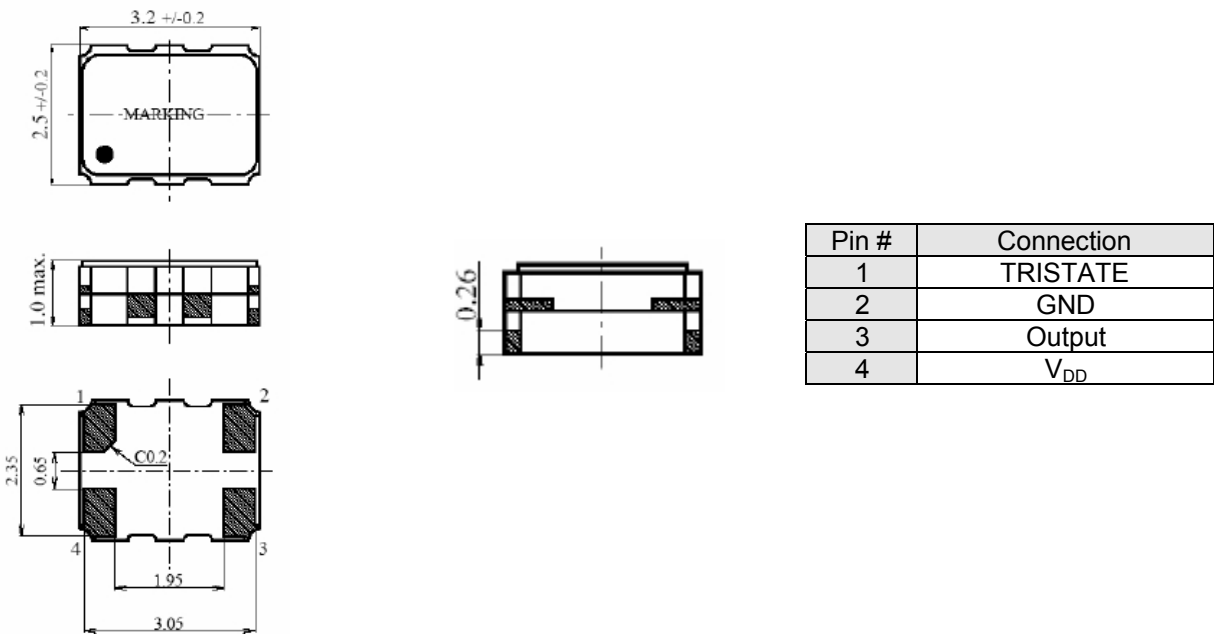
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Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Duty Cycle			45	50	55	%	
Rise / Fall Time	Tr/Tf	10% to 90% of V _{DD}			10.0	ns	
Logic “1” Level	Voh		90% V _{DD}		-	V	
Logic “0” Level	Vol		-		10% V _{DD}	V	
Start up time					8	ms	
Jitter	1σ	0.8MHz to 20MHz			1	ps	
Storage Temperature	Ts		-55		+125	°C	



How to Order

