

F Series 32.768KHz Military Oscillators

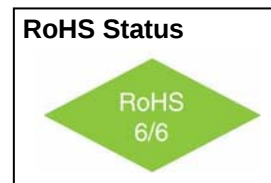
XO – Ultra Low Power

4x2.5mm SMD, HCMOS

Widely used for Telecommunications, Aerospace, Defense and Military Industries.

Features

- > HCMOS 32.768KHz
- > Supply Voltage 1.3Vdc ~5.5Vdc
- > 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 Stability	$\Delta F/F$	Over all conditions of Operating Temperature; Supply Voltage; 10 Years Aging; shock & vibration	± 10	± 50	± 100	ppm	
Operating Temperature	T		-55		+125°	°C	
Output			HCMOS 15pF				
Supply Voltage	V _{DD}		1.30		5.50	Vdc	
Supply Current	I _{CC} MAX				1.5	μ A	Max Current across entire temp range
Standby Current	I _{ST}				250	nA	

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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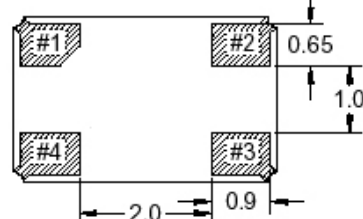
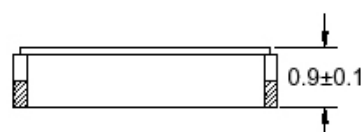
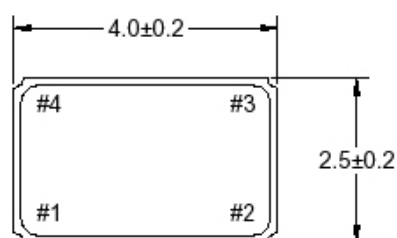
XO – Ultra Low Power

4x2.5mm SMD, HCMOS

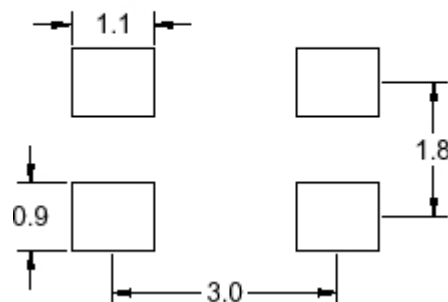


Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Duty Cycle			45	50	55	%	
Rise / Fall Time	Tr/Tf	10% to 90% of V _{DD}			200	ns	
Logic "1" Level	Voh		V _{DD} -0.4V			V	
Logic "0" Level	Vol				0.4	V	
Start up time					3	S	
Storage Temperature	Ts		-55		+125°	°C	

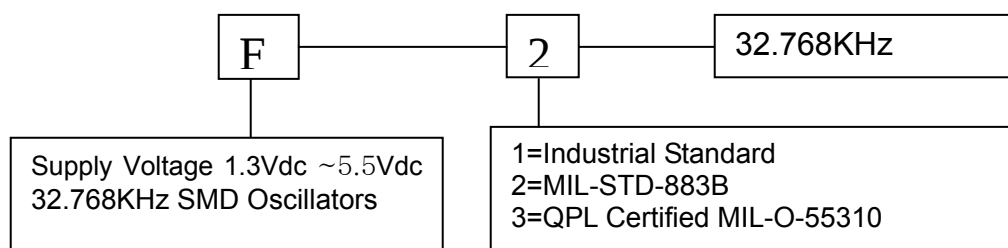


Recommended Solder Pad Layout



Pin #	Connection
1	N/C
2	GND
3	Output
4	V _{DD}

How to Order



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