



Features and Benefits

Broad frequency range from 1.544Mhz to 150MHz
Compact and thin ceramic package with a metalized for surface mounting and automatically loaded
Reflow solder is possible
Lower noise and current with reduced power consumption
Built-in CMOS IC with tri-state function
5V and 3.3V supply model available

Typical Applications

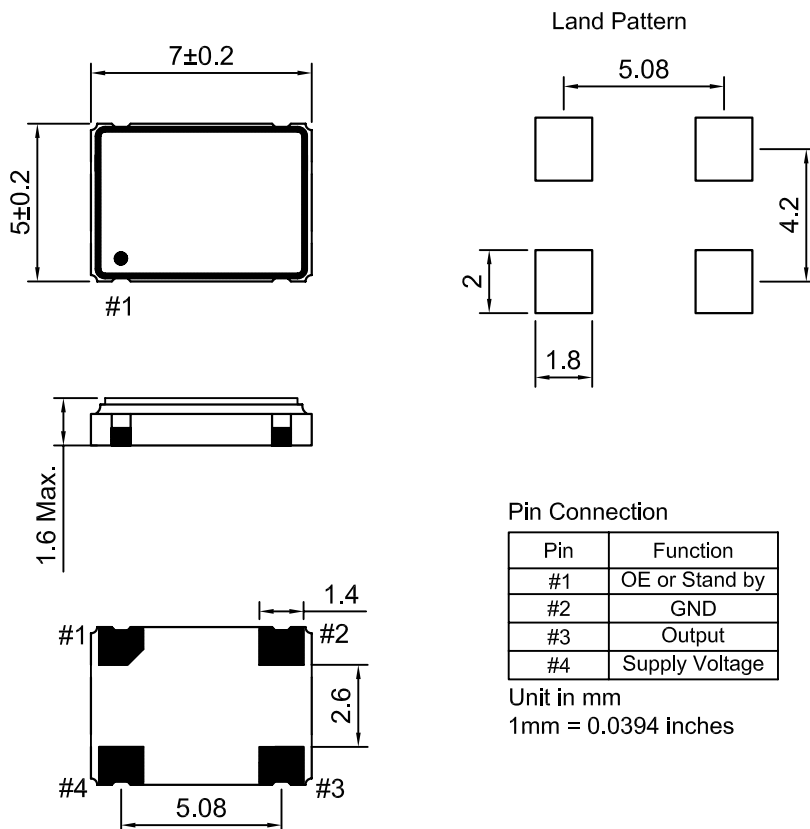
Digital-to-analog Converters (DAC's)
High quality digital communication systems

Description

XO7500AL-25MHz-A offers superb integrated phase jitter and low phase noise in a compact package suitable for high-quality digital communication systems that require extremely low jitter master clocks for high time-resolution (sample rates, conversion accuracy).

Mechanical Drawing & Pin Connections

Drawing No: MD1) \$\$8+!)





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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F			25		MHz	
Output Waveform			CMOS				
Output Logic "High", "1"			90% of V _{DD}			V	
Output Logic "Low", "0"			10% of V _{DD}			V	
Duty Cycle			45-55			%	
Rise Time		10%-- 90% V _{DD}		8		ns	
Fall Time		90%--10% V _{DD}		8		ns	
Output Load			15			pF	
Start-up Time				10		ms	
Enable Voltage High				70% V _{DD}			
Disable Voltage Low				30% V _{DD}			
Output Disable delay time				150		us	
Output Enable delay time				150		us	
Power Supply							
Voltage	V _{DD}	±10%		3.3		V	
Current Consumption				15		mA	
Frequency Stability							
Frequency Stability		Over -20°C to +70°C		±25		ppm	
Aging/Year		25°C		±5		ppm	
Environmental Conditions							
Operating temperature range		-20°C to +70°C					
Storage temperature range		-55°C to +125°C					