

Features and Benefits

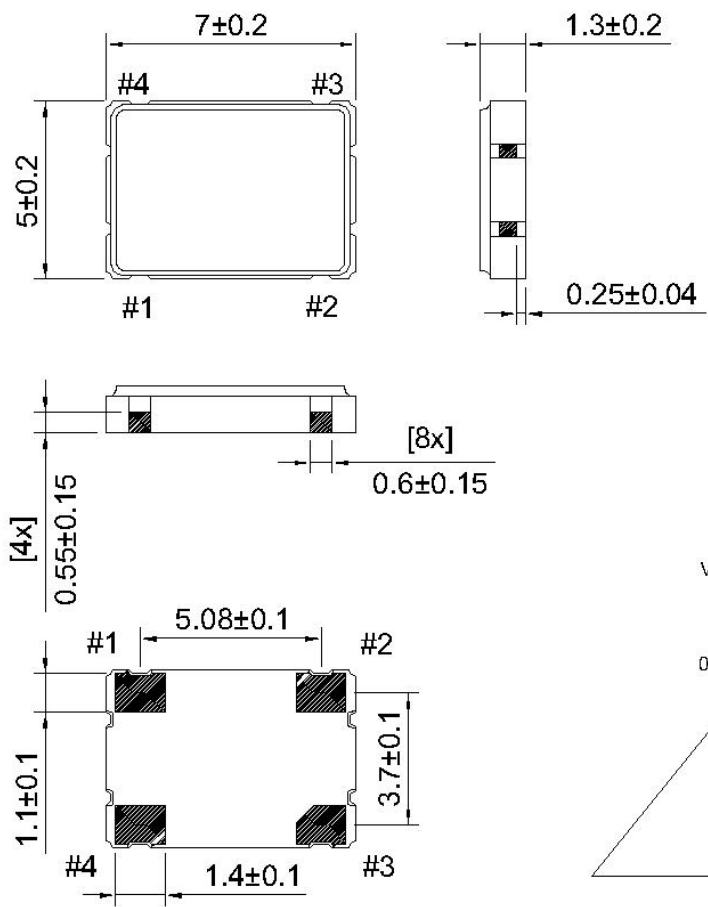
+/-50PPM frequency stability overall
25MHz CMOS output
3.3V supply, 10mA maximum current
Operating temperature from- 40°C to +85°C

Typical Applications

Processor Clock Reference

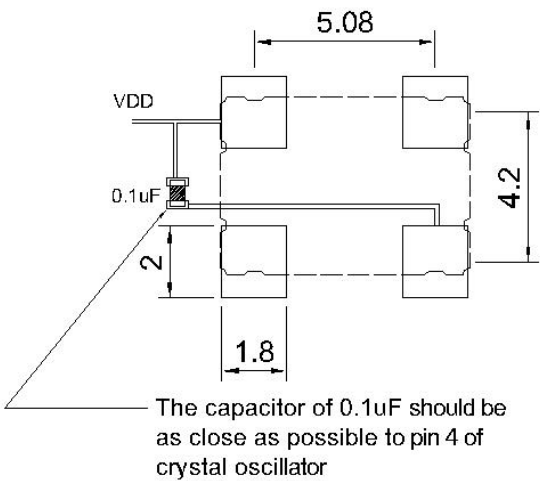
Mechanical Drawing & Pin Connections

Drawing No: MD150027-1



Pad	Function
#1	Tri-State/NC
#2	GND
#3	Output
#4	VDD

Unit : mm



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency	F _{nom}			25.000000		MHz	
Output Wave Form			CMOS				
Output Voltage Level(High)			90%V _{DD}			V	
Output Voltage Level(Low)					10% V _{DD}	V	
Output Load		Operating range			15	pF	
Duty Cycle		Measured at 50% V _{DD} trigger level	45	50	55	%	
Rise and Fall Times					6.0	nSec	
Start Time					5.0	mSec	
Tri-State	Output Active	Pin 1 Tri-state	0.7 V _{DD}			V	
	Output in High-impedance				0.3 V _{DD}	V	
Power Supply							
Supply Voltage	V _{cc}		2.97	3.3	3.63	V	
Supply Current		At maximum supply voltage			10	mA	
Standby Current		Output disabled			10	uA	
Jitter							
Period Jitter(Pk-Pk)					40	pSec	
Frequency Stability							
Frequency Stability(Overall)		Includes frequency tolerance@+25°C and frequency stability vs. operating temperature range and voltage change and first year aging.			+/-50	ppm	
VS. Supply Voltage		+/-10% change at 25°C			+/-3	ppm	
Aging		Frequency drift in first year at 25°C			+/-3	ppm	
RMS Phase Jitter		12K to 20MHz			1	pSec	
Parameter Reference Std. Test Condition							
Operating Temperature range	-40°C to +85°C						
Storage Temperature range	-55°C to +125°C						
Vibration Test	MIL-STD-883 2007 Condition A JESD22-B103 Condition 1		10 – 2000Hz, 1.52mm, 20g, each axis 4hrs				
Thermal Shock	MIL-STD-883 1010 Condition B JESD22-A104 Condition B		-55°C, 125°C; soak time is 10mins, with total 200 cycles.				
Mechanical Shock	MIL-STD-883 2002 Condition B		1500G, half-sine, 0.5ms, each axis for 3 times				