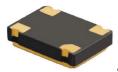
M2250 Series

5x7 mm, 2.5 Volt, HCMOS/TTL, Clock Oscillator

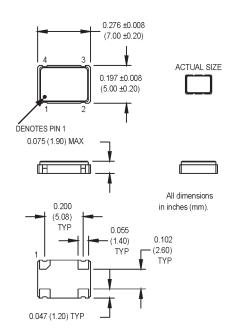




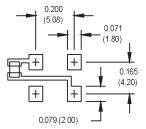




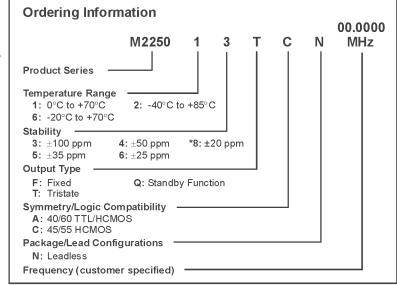
- 2.5 Volt Operation
- Standby Option
- High density boards, low power circuits, portable test sets



SUGGESTED SOLDER PAD LAYOUT



NOTE: A capacitor of value 0.01 μ F or greater between Vdd and Ground is recommended.



* 0°C to +70°C only

M2250Sxxx - Contact factory for datasheet.

Pin Connections

PIN	FUNCTION
1	N/C, Tri-state or Standby
2	Ground
3	Output
4	+Vdd

Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition
	Frequency Range	F	1.0		125	MHz	See Note 1
	Frequency Stability	△F/F (See Ordering Information)					
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vdd	2.375	2.5	2.625	V	
	Input Current	ldd			30	mA	
	Standby Current				10	μΑ	Standby Mode
	Symmetry (Duty Cycle)	(See Ordering Information)					
	Load				15/10	pF/TTL	
	Rise/Fall Time	Tr/Tf			6	ns	Ref. 0.25 - 2.25 V
	Logic "1" Level	Voh	90% Vdd			V	HCMOS Load
	Logic "0" Level	Vol			10% Vdd	V	HCMOS Load
	Cycle to Cycle Jitter			8	15	ps RMS	1 Sigma
	Standby/Tristate Function	Input Logic "1" or floating; output active Input Logic "0"; output to high-Z				active	
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
	Vibration	Per MIL-STD-202, Method 201 & 204					
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ at m.cc/s of helium)					
	Solderability	Per EIAJ-STD-002					
Ē	Max Soldering Conditions	ons See solder profile, Figure 1					

^{1.} Not all frequencies are available. Please contact factory for availability.

TTL Load - see load circuit diagram #1. HCMOS Load - see load circuit diagram #2.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.





