M2250 Series 5x7 mm, 2.5 Volt, HCMOS/TTL, Clock Oscillator

All dimensions

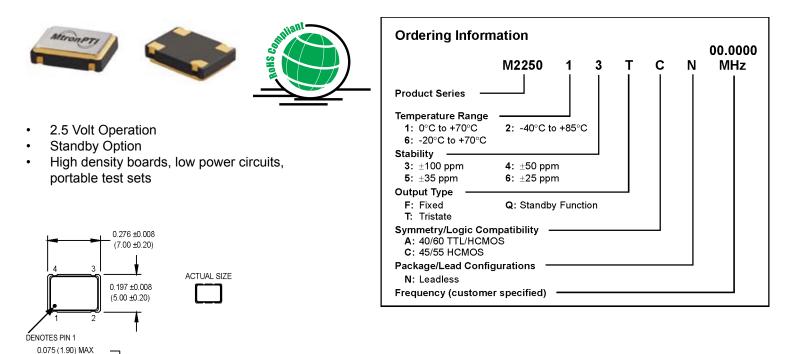
in inches (mm).

0.102

(2.60)

TYP







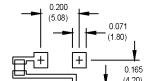
PI	N	FUNCTION
1		N/C, Tri-state or Standby
2		Ground
3		Output
4		+Vdd

						1		
Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
	Frequency Range	F	1.0		125	MHz	See Note 1	
	Frequency Stability	Δ 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	μ A	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			1 0 % 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					
Envir onmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
	Vibration	Per MIL-STD-202, Method 201 & 204						
	Reflow Solder Conditions	See "Figur	See "Figure 2" on page 147					
	Hermeticity	TD-202, Method 112 (1 x 10 ^{.°} atm.cc/s of helium)						
Ë	Solderability							

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

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.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.



SUGGESTED SOLDER PAD LAYOUT

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0.200

(5.08)TYP

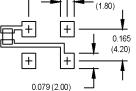
0.047 (1.20) TYP

Π

0.055

(140)

TYP



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