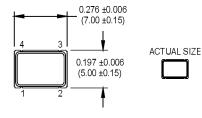
M2035, M2036, and M2037 Series

5.0 x 7.0 x 1.4 mm, HCMOS Compatible Surface Mount Oscillators

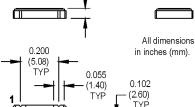


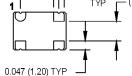
- \pm 20 ppm stability
- Tri-state or standby function
- Ideal for WLAN and IEEE802.11 Applications
- Low power applications



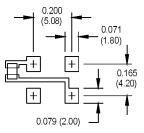








SUGGESTED SOLDER PAD LAYOUT



Pin Connections

PIN	FUNCTION
1	Tri-state/Standby
2	Ground
3	Output
4	+Vdd

Ordering Information							
	M203X	D	8	Q	с	Ν	00.0000 MHz
Product Series	C C 4: ±50 ppn 8: ±20 ppn						
T: Tri-state Symmetry/Logic C C: 45/55 HCMOS Package/Lead Cor N: Leadless Frequency (custor	G: 40/60 H figurations -	CMOS					

*-10°C to +70°C only

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition		
	Frequency Range	F	1.5		125	MHz	See Note 1		
	Frequency Stability	∆ F/F			±20	ppm	See Note 2		
	Operating Temperature	TA	(See Orde	ring Infor	mation)				
	Input Voltage	Vdd	3.15	3.3	3.45	V	3.3V		
			2.85	3.0	3.15	V	3.0V		
			2.7	2.85	3.0	V	2.85V		
	Input Current	ldd							
Electrical Specifications	1.500 to 20.000 MHz				15	mA	3.3V		
	20.001 to 50.000 MHz				20	mA			
	50.001 to 67.000 MHz				30	mA			
	67.001 to 125.000 MHz				55	mA			
	Symmetry (Duty Cycle)		45		55	%	½ Vdd		
	Rise/Fall Time	Tr/Tf					See Note 2		
	80.000 MHz				4	ns	10% to 90% Vdd		
	22.000 to 44.000 MHz				6	ns	10% to 90% Vdd		
	Logic "1" Level	Voh	90% Vdd			V			
	Logic "0" Level	Vol			10% Vdd	V			
	Output Current	loh	-2			mA			
		lol	+2			mA			
	Output Load				15	pF			
	Start-up Time				5	ms			
	Standby Current				10	μ A			
	Tri-State/Standby Function		Pin 1 high Pin 1 low:						
	Output Disable Time				150	ns			
	Output Enable Time				5	ms			
al	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C							
Environmental	Vibration	Per MIL-STD-202, Method 201 & 204							
	Reflow Solder Conditions	+260°C for 10 seconds max.							
virc	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ^{.°} atm.cc/s of helium)							
Ē	Solderability	Per EIAJ-STD-002							

1. Consult factory for available frequencies in this range

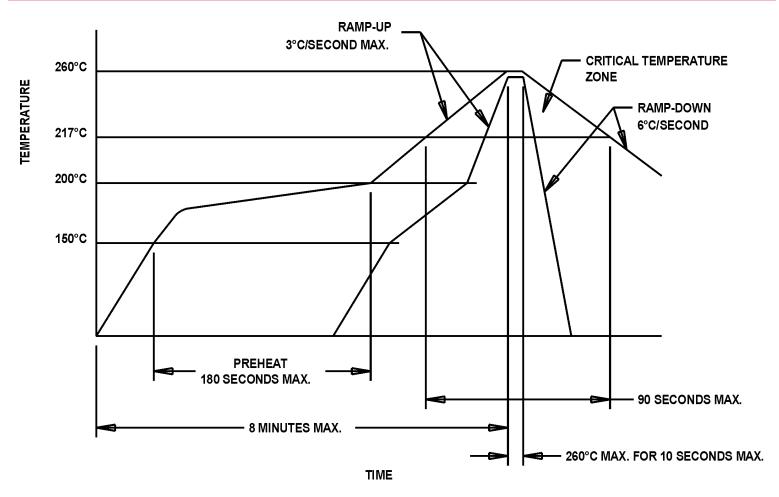
2. Inclusive of calibration, deviation over temperature, supply voltage change, load change, shock, vibration,

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

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MtronPTI Lead Free Solder Profile



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