## M2032, M2033, and M2034 Series



**PARAMETER** 

Mechanical Shock

Reflow Solder Conditions

Vibration

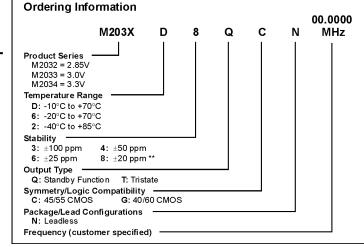
Hermeticity

Solderability



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



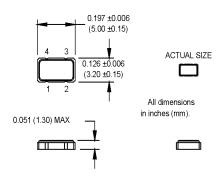


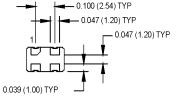
Units.

Max.

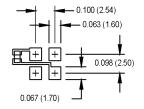
Тур.

Condition





## SUGGESTED SOLDER PAD LAYOUT



				_ · <i>y</i>  - ·			
ectrical Specifications	Frequency Range	F	1.5		80	MHz	See Note 1
	Frequency Stability	ΔF/F			±20	ppm	See Note 2
	Operating Temperature	TA	(See Order	ing Infor			
	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	2.8V
	Input Current	ldd					
	1.500 to 20.000 MHz				15	mA	3.3V
	20.001 to 50.000 MHz				20	mA	
	50.001 to 80.000 MHz				45	mA	
	Symmetry (Duty Cycle)		45		55	%	½ Vdd
	Rise/Fall Time	Tr/Tf					
	22.000 to 44.000 MHz				6	ns	10% to 90% Vdd
	80.000 MHz				4	ns	10% to 90% Vdd
	Logic "1" Level	Voh	90% Vdd			V	
မ	Logic "0" Level	Vol			10% Vdd	V	
ıΞ	Output Current	loh	-2			mA .	
		Lol	+2			mA	
	Output Load				15	pF	
	Start-up Time				5	ms	
	Standby Current				10	ms	
	Standby/Tristate Function		Pin 1 high or floating: clock signal output				
			Pin 1 low: output disables to high impedance				
	Output Disable Time				150	ns	
	Output Enable Time				5	ms	

## Pin Connections

PIN	Function			
1	Standby/Tristate			
2	Ground			
3	Output			
4	+Vdd			

1	(`Ancult	tactory to	r available	frequencies	' in thic	ranga

<sup>2.</sup> Inclusive of calibration, deviation over temperature, supply voltage change, load change, shock, vibration, and 10 years aging

Per MIL-STD-202, Method 112 (1 x 10<sup>-8</sup> atm.cc/s of helium)

Per MIL-STD-202, Method 213, Condition C

Per MIL-STD-202, Method 201 & 204

240°C for 10 s max

Per EIAJ-STD-002

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.

Symbol

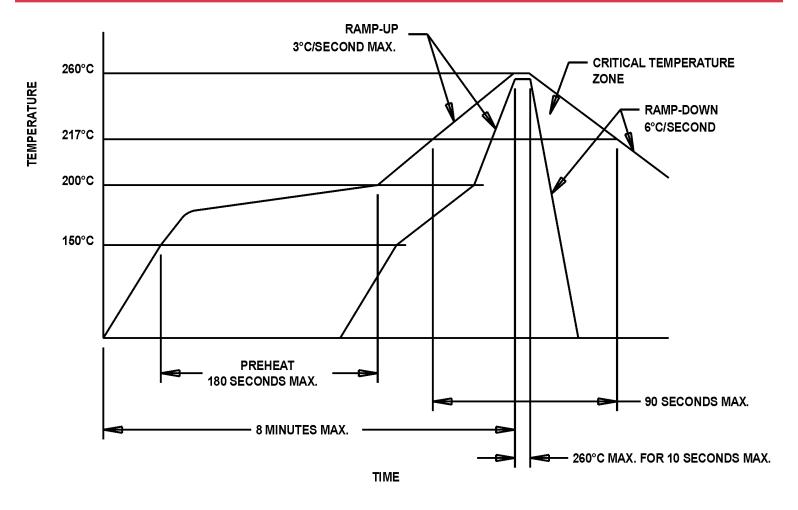
Min.

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

**Revision: 11-17-06** 



## MtronPTI Lead Free Solder Profile



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