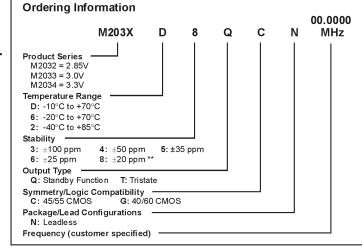
M2032, M2033, and M2034 Series

3.2 x 5.0 x 1.3 mm HCMOS Compatible Surface Mount Oscillators



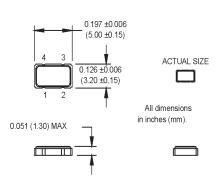
- ±20 ppm stability
- Tri-state or standby function
- Ideal for WLAN and IEEE802.11 **Applications**
- Low power applications

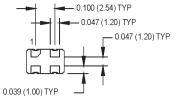




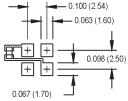
M2034S021 datasheet - Contact Factory

**-10°C to +70°C only





SUGGESTED SOLDER PAD LAYOUT



0)		

Pin Connections

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units.	Condition	
	Frequency Range	F	1.5		80	MHz	See Note 1	
	Frequency Stability	ΔF/F			±20	ppm	See Note 2	
	Operating Temperature	TA	(See Ordering Information)					
	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						
S	1.500 to 20.000 MHz				15	mA	3.3V	
.⊡	20.001 to 50.000 MHz				20	mA		
cat	50.001 to 80.000 MHz				45	mA		
<u>#</u>	Symmetry (Duty Cycle)		45		55	%	½ Vdd	
Specifications	Rise/Fall Time	Tr/Tf						
	22.000 to 44.000 MHz				6	ns	10% to 90% Vdd	
Electrical	80.000 MHz				4	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	10	ms		
	Standby Current				10	μA		
	Standby/Tristate Function		Pin 1 high					
			Pin 1 low: 0					
	Output Disable Time				150	ns		
	Output Enable Time				5	ms		
-								
lt.	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
le l	Vibration	Per MIL-STD-202, Method 201 & 204						
	Reflow Solder Conditions	+260°C for 10 seconds maximum						
ΙĘ	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)						
Environmental	Solderability Per EIAJ-STD-002							
	1. Consult featory for available frequencies in this range							

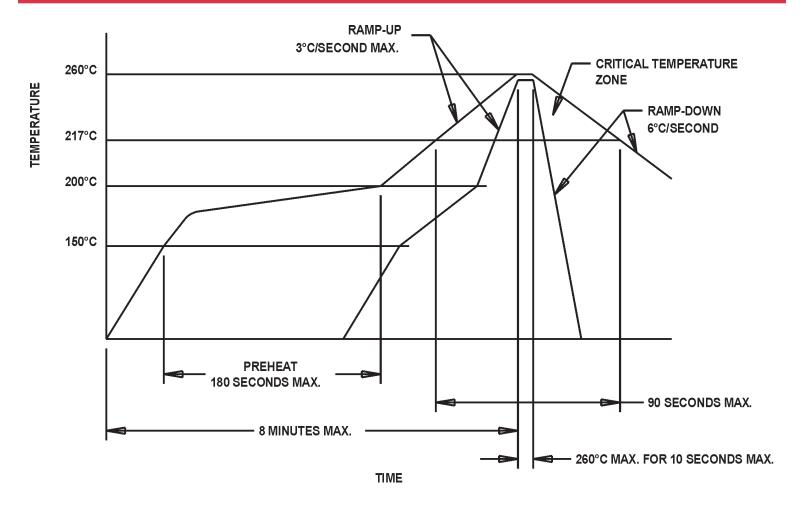
- 1. Consult factory for available frequencies in this range.
- 2. Inclusive of calibration, deviation over temperature, supply voltage change, load change, shock, vibration, and 10 years aging

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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.



MtronPTI Lead Free Solder Profile



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