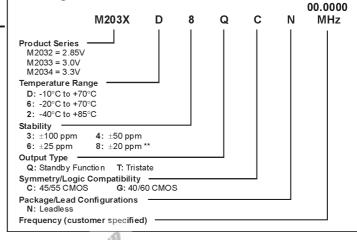
## M2032, M2033, and M2034 Series 3.2 x 5.0 x 1.3 mm HCMOS Compatible Surface Mount Oscillators

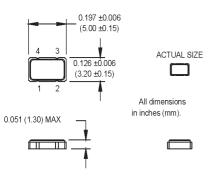


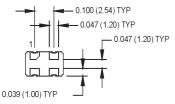
- ±20 ppm stability
- · Tri-state or standby function
- Ideal for WLAN and IEEE802.11 Applications
- Low power applications

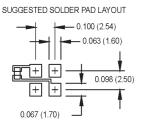


Ordering Information









## **Pin Connections**

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

	Frequency (customer specified)								
		136	CON	A.C	n				
	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 Orde						
	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		
ij	20.001 to 50.000 MHz				20	mA			
gat	50.001 to 80.000 MHz				45	mA			
Specifications	Symmetry (Duty Cycle)		45		55	%	½ Vdd		
ec	Rise/Fall Time	Tr/Tf							
S	22.000 to 44.000 MHz				6	ns	10% to 90% Vdd		
ā	80.000 MHz				4	ns	10% to 90% Vdd		
Electrical	Logic "1" Level	Voh	90% Vdd			V			
ec	Logic "0" Level	Vol			10% Vdd	V			
Ш	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 floatin	g: clock signa	al output			
		Pin 1 low: output disables to high impedance							
	Output Disable Time				150	ns			
	Output Enable Time				5	ms			
nta	Mechanical Shock Per MIL-STD-202, Method 213, Condition C								
ne	Vibration	Per MIL-STD-202, Method 201 & 204							
ľ	Reflow Solder Conditions								
/irc	Hermeticity Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm.cc/s of helium)								
Environmenta	Solderability	Per EIAJ-S	STD-002						
Ш	ш <sub> </sub>								
4	Consult factory for available f	rogueneine i	n 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

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.