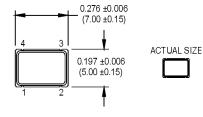
## M2035, M2036, and M2037 Series 5.0 x 7.0 x 1.4 mm **HCMOS Compatible Surface Mount Oscillators**

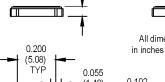


- ±20 ppm stability
- Tri-state or standby function
- Ideal for WLAN and IEEE802.11 Applications
- Low power applications

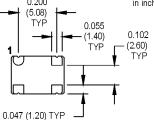




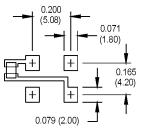








SUGGESTED SOLDER PAD LAYOUT



## **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	<sup>2</sup> C <sup>2</sup> C <sup>2</sup> C 4: ±50 ppn						
Output Type Q: Standby Fun T: Tri-state Symmetry/Logic							
C: 45/55 HCMO Package/Lead Co	S G: 40/60 H	CMOS					
N: Leadless Frequency (custo	mer specified	I) ——					

\*-10°C to +70°C only

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
				тур.				
	Frequenc y Range	F	1.5		125	MHz	See Note 1	
	Frequency Stability	∆F/F			±20 ppm		See Note 2	
	Operating Temperature	TA	(See Orde	<u> </u>				
	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						
	1.500 to 20.000 MHz				15	mA	3.3V	
fications	20.001 to 50.000 MHz				20	mA		
	50.001 to 67.000 MHz				30	mA		
	67.001 to 125.000 MHz				55	mA		
ecit	Symmetry (Duty Cycle)		45		55	%	½ Vdd	
Electrical Specifications	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 <b>A</b>		
	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-S	TD-202, Met	hod 213,	Condition C			
ent	Vibration	Per MIL-STD-202, Method 201 & 204						
Environmental	Reflow Solder Conditions	+260°C for 10 seconds max.						
virc	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>°</sup> atm.cc/s of helium)						
En	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.