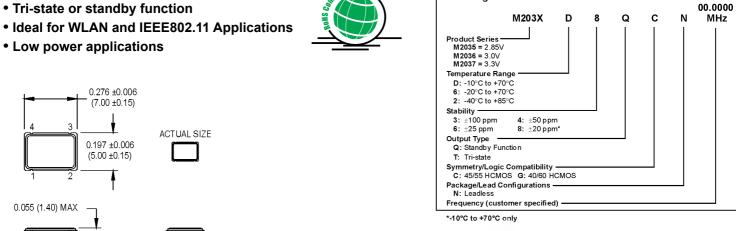
M2035, M2036, and M2037 Series

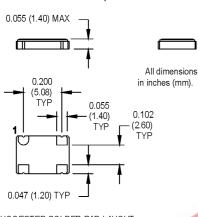




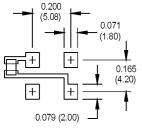
- ±20 ppm stability
- Tri-state or standby function
- Low power applications







SUGGESTED SOLDER PAD LAYOUT



Pin Connections

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

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A TO CO									
	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition		
	Frequency Range	· EO	1.5		125	MHz	See Note 1		
	Frequency Stability	Ø∆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	٧	3.0V		
			2.7	2.85	3.0	٧	2.85V		
	Input Current	ldd							
	1.500 to 20.000 MHz				15	mA	3.3V		
ည	20.001 to 50.000 MHz				20	mA			
Ęi	50.001 to 67.000 MHz				30	mA			
lica	67.001 to 125.000 MHz				55	mA			
Electrical Specifications	Symmetry (Duty Cycle)		45		55	%	½ Vdd		
	Rise/Fall Time	Tr/Tf					See Note 2		
rica	80.000 MHz				4	ns	10% to 90% Vdd		
ect	22.000 to 44.000 MHz				6	ns	10% to 90% Vdd		
Ē	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	μА			
	Tri-State/Standby Function	Pin 1 high or floating: clock signal output Pin 1 low: output disables to high impedance							
1	Output Disable Time				150	ns			
	Output Enable Time				5	ms			
<u></u>	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C							
ent	Vibration	Per MIL-STD-202, Method 201 & 204							
I L	Reflow Solder Conditions	+260°C for 10 seconds max.							
Environmental	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10° atm.cc/s of helium)							
ᇤ	Solderability	Per EIAJ-STD-002							

Ordering Information

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

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.



MtronPTI Lead Free Solder Profile

