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

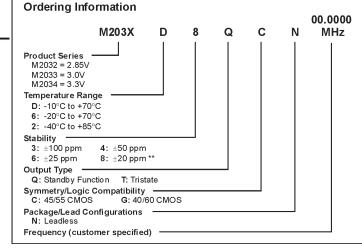
DADAMETED



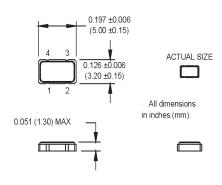
- ±20 ppm stability
- Tri-state or standby function
- Ideal for WLAN and IEEE802.11 Applications
- Low power applications

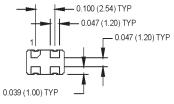


Cumbal

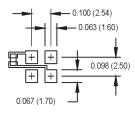


Linita





SUGGESTED SOLDER PAD LAYOUT



Pin	Conr	nectio	ns

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 Order					
	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	
ļ. <u>ē</u>	20.001 to 50.000 MHz				20	mA		
cat	50.001 to 80.000 MHz				45	mA		
Specifications	Symmetry (Duty Cycle)		45		55	%	½ Vdd	
	Rise/Fall Time	Tr/Tf						
	22.000 to 44.000 MHz				6	ns	10% to 90% Vdd	
<u>8</u>	80.000 MHz				4	ns	10% to 90% Vdd	
ŀĔ	Logic "1" Level	Voh	90% Vdd			V		
Electrical	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	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		
=						·		
nta	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
ne	Vibration	Per MIL-STD-202, Method 201 & 204						
Ĭ	Reflow Solder Conditions	240°C for 10 s max						
ļ.į	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)						
Environmental	Solderability	Per EIAJ-STD-002						
1	Consult factory for available t	roguenojec j	n thic range					

- 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.