M2032, M2033, and M2034 Series



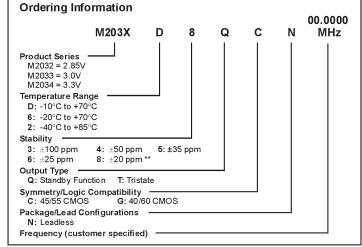
DADAMETED



Condition

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





Unite

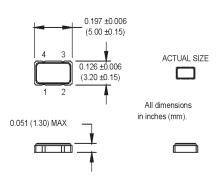
M2034S021 datasheet - Contact Factory

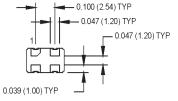
Typ May

**-10°C to +70°C only

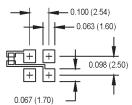
Min

Symbol





SUGGESTED SOLDER PAD LAYOUT



Pin	Connections

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units.	Condition	
Specifications	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						
	1.500 to 20.000 MHz				15	mA	3.3V	
	20.001 to 50.000 MHz				20	mA		
	50.001 to 80.000 MHz				45	mA		
	Symmetry (Duty Cycle)		45		55	%	½ Vdd	
	Rise/Fall Time	Tr/Tf						
					6	ns	10% to 90% Vdd	
Sal	80.000 MHz				4	ns	10% to 90% Vdd	
Electrical	Logic "1" Level	Voh	90% Vdd			V		
<u>S</u>	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 or floating: clock signal output						
			Pin 1 low: o					
	Output Disable Time				150	ns		
	Output Enable Time				5	ms		
-								
Į	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
l e	Vibration	Per MIL-S						
Environmental	Reflow Solder Conditions	+260°C foi						
ŀ⋚	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)						
ايًا	Solderability	Per EIAJ-S						
- 1	Concult factory for available f	roguonoioe i	n thic rongo					

- 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.





