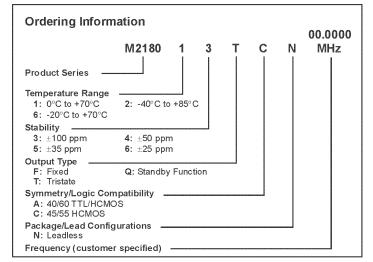
M2180 Series 5x7 mm, 1.8 Volt, HCMOS/TTL, Clock Oscillator



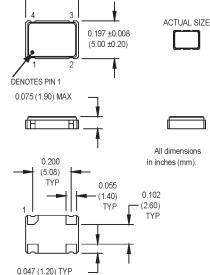




- 1.8 Volt Operation
- Standby Option
- High density boards, low power circuits, portable test sets



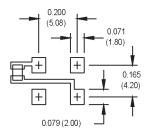
M2180Sxxx - Contact factory for datsheet.



0.276 ±0.008

(7.00 ±0.20)





NOTE: A capacitor of value 0.01 μF or greater between Vdd and Ground is recommended.

Pin Connections

PIN	FUNCTION				
1	N/C, Tri-state or Standby				
2	Ground				
3	Output				
4	+Vdd				

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Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition
	Frequency Range	F	1.0		70	MHz	See Note 1
	Frequency Stability	∆F/F	(See Ordering Information)				
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vdd	1.62	1.8	1.98	V	
	Input Current	ldd			20	mA	
	Standby Current				10	μA	Standby Mode
	Symmetry (Duty Cycle)		(See Ordering Information)				½ Vdd
	Load				30/10	pF/TTL	
	Rise/Fall Time	Tr/Tf					
	1.000 to 35.328 MHz				10	ns	Ref. 10% - 90% Vdd
	35.328 to 70.000 MHz				6	ns	Ref. 10% - 90% Vdd
	Logic "1" Level	Voh	90% Vdd			V	HCMOS Load
	Logic "0" Level	Vol			10% Vdd	V	HCMOS Load
	Cycle to Cycle Jitter			8	15	ps RMS	1 Sigma
	Standby/Tristate Function	Input Logic "1" or floating; output active					
		Input Logic "0"; output to high-Z					
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
	Vibration	Per MIL-STD-202, Method 201 & 204					
	Max Soldering Conditions	See solder profile, Figure 1					
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ^s atm.cc/s of helium)					
ա	Solderability	Per EIAJ-STD-002					

1. Not all frequencies are available. Please contact factory for availability.

TTL Load - see load circuit diagram #1. HCMOS Load - see load circuit diagram #2.

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.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.