M3H & MH Series

8 pin DIP, 5.0 or 3.3 Volt, HCMOS/TTL Clock Oscillator

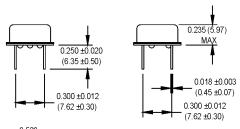


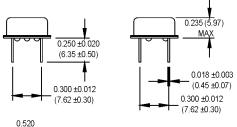


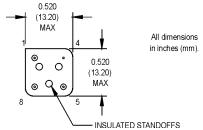




- 5.0 Volt or 3.3 Volt Versions
- RoHs Compliant Version available
- Low Jitter







Pin Connections

PIN	FUNCTION					
1	N/C or Tristate					
4	Circuit/Case Ground					
5	Output					
8	+Vdd					

		M3H / MH	1	3	F	Α	D	-R	00.000 MHz
Product Series ————————————————————————————————————									
Temperature Range									
1: 0°C to +70°C		-40°C to +85°C							
3: -55°C to +105°C									
5: -10°C to +85°C	6:	-20°C to +70°C							
7: 0°C to +85°C									
Stability-									
1: ±1000 ppm	2:	±500 ppm							
3: ±100 ppm	4:	±50 ppm							
3 : ±100 ppm 5 : ±35 ppm	6:	±25 ppm							
7· +0/-200 nnm	* 8·	±20 ppm							
Output Type F: Fixed									
F: Fixed	T:	Tristate							
Symmetry/Logic Com	patik	ility———							
A: 40/60 HCMOS/TT			H ser	ies onl	y)				
C: 45/55 HCMOS		D: 45/55 HCMOS	S/TTL	(MH to	50 M	Hz only	()		
Package/Lead Configu D: DIP; Nickel Heade									
RoHS Compliance —		•							- 1
Blank: non-RoHS o									

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes		
	Frequency Range	F	1.5		100	MHz	МЗН		
			1.0		80	MHz	MH See Note 1		
	Operating Temperature	TA	(See Order	ing Inforn	nation)				
	Storage Temperature	Ts	-55		+125	°C			
	Frequency Stability	∆F/F	(See Order	ing Inforn	nation)				
	Aging								
	1st Year			±3		ppm			
	Thereafter (per year)			±2		ppm			
	Input Voltage	Vdd	3.135	3.3	3.465	٧	мзн		
us			4.5	5.0	5.5	V	MH		
atio	Input Current (M3H)	ldd			25	mA	1.500 to 50.000 MHz		
fica					35	mA	50.001 to 67.000 MHz		
eci					55	mA	67.001 to 100.000 MHz		
ş	Input Current (MH)	ldd			40	mA	1.000 to 40.000 MHz		
Electrical Specifications					60	mA	40.001 to 80.000 MHz		
	Output Type						HCMOS/TTL		
ӹ	Load		2 TTL or 15	•			M3H MH See Note 2		
	Symmetry (Duty Cycle)		(See Order		nation)		See Note 3		
	Logic "1" Level	Voh	90% Vdd	90% Vdd			HCMOS Load		
	_		Vdd -0.5			V	TTL Load		
	Logic "0" Level Vol				10% Vdd	٧	HCMOS Load		
					0.5	V	TTL Load		
	Output Current				±4	mA	мзн		
					±16	mA	МН		
	Rise/Fall Time	Tr/Tf			10	ns	See Note 4		
	Tristate Function		Input Logic "1" or floating; output active Input Logic "0"; output disables to high-Z						
	Start up Time			5		ms			
	Random Jitter	Rj		5	12	ps RMS	1-Sigma		

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.