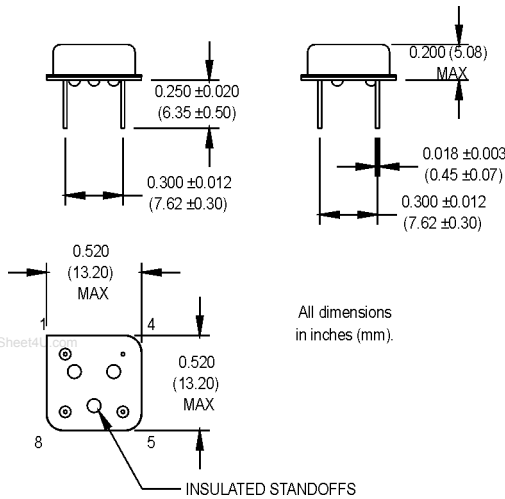


MEH Series

8 pin DIP, 5.0 Volt, ECL, PECL, Clock Oscillators



MEH Series ECL/PECL Half-Size Clock Oscillators, 10 KH Compatible with Optional Complementary Outputs



All dimensions in inches (mm).

Pin Connections

PIN	FUNCTION(S) (Model Dependent)
1	N/C, Output #2
4	-Vee, Ground
5	Output #1
8	+Vcc

Ordering Information

	MEH	1	3	X	A	D	-R	00.0000 MHz
Product Series								
Temperature Range								
1: 0°C to +70°C	2: -40°C to +85°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							
6: ±25 ppm	*8: ±20 ppm							
Output Type								
X: Single Output	Z: Dual Output							
Symmetry/Logic Compatibility								
A: 40/60 (std.)	B: 45/55							
Package/Lead Configurations								
A: DIP; Gold Flash Header	D: DIP; Nickel Header							
G: Gull Wing; Nickel Header	X: Gull Wing; Gold Flash Header							
RoHS Compliance								
Blank: non-RoHS compliant part								
-R: RoHS compliant part								
Frequency (customer specified)								

*Contact factory for availability.

Electrical Specifications	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
	Frequency Range	F	40		133	MHz	
	Frequency Stability	$\Delta F/F$	(See Ordering Information)				
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vcc	4.75	5.0	5.25	V	
	Input Current	Iee/Icc		35	60	mA	
	Symmetry (Duty Cycle)		(See Ordering Information)				
	Load		130 Ω to Vcc -2V or Thevenin Equivalent				See Note 1
	Rise/Fall Time	Tr/Tf			2.5	ns	See Note 2
	Logic "1" Level	Voh	Vcc -0.98			V	
	Logic "0" Level	Vol			Vcc -1.63	V	
Environmental	Cycle to Cycle Jitter			11	25	ps RMS	1 Sigma
	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
	Vibration	Per MIL-STD-202, Method 201 & 204					
	Wave Solder Conditions	See page 147					
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)					
Environmental	Solderability	Per EIAJ-STD-002					

1. Internally terminated outputs. See load circuit diagram #4.
2. Rise/Fall times are measured between Vcc -0.98 V and Vcc -1.63 V.

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.

MtronPTI Lead Free Solder Profile

