

## MEH Series

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

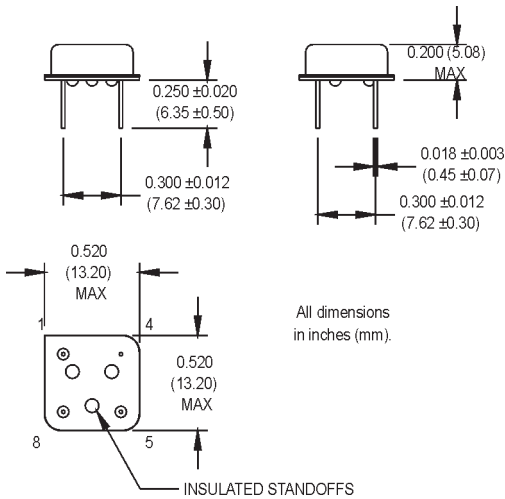


**MEH Series ECL/PECL Half-Size Clock Oscillators, 10 KH Compatible with Optional Complementary Outputs**

### Ordering Information

	MEH	1	3	X	A	D	-R	00.0000	MHz
<b>Product Series</b>									
<b>Temperature Range</b>									
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									
<b>Stability</b>									
1: ±1000 ppm	2: ±500 ppm								
3: ±100 ppm	4: ±50 ppm								
6: ±25 ppm	*8: ±20 ppm								
<b>Output Type</b>									
X: Single Output	Z: Dual Output								
<b>Symmetry/Logic Compatibility</b>									
A: 40/60 (std.)	B: 45/55								
<b>Package/Lead Configurations</b>									
A: DIP; Gold Flash Header	D: DIP; Nickel Header								
G: Gull Wing; Nickel Header	X: Gull Wing; Gold Flash Header								
<b>RoHS Compliance</b>									
Blank: non-RoHS compliant part									
-R: RoHS compliant part									
<b>Frequency (customer specified)</b>									

\*Contact factory for availability.



### Pin Connections

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

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition	
Electrical Specifications	Frequency Range	F	40		133	MHz		
	Frequency Stability	$\Delta F/F$	(See Ordering Information)					
	Operating Temperature	T <sub>A</sub>	(See Ordering Information)					
	Storage Temperature	T <sub>s</sub>	-55		+125	°C		
	Input Voltage	V <sub>cc</sub>	4.75	5.0	5.25	V		
	Input Current	I <sub>ee</sub> /I <sub>cc</sub>		35	60	mA		
	Symmetry (Duty Cycle)		(See Ordering Information)					V <sub>cc</sub> -1.3 V level
	Load		130 Ω to V <sub>cc</sub> -2V or Thevenin Equivalent					See Note 1
	Rise/Fall Time	T <sub>r</sub> /T <sub>f</sub>			2.5	ns	See Note 2	
	Logic "1" Level	V <sub>oh</sub>	V <sub>cc</sub> -0.98			V		
	Logic "0" Level	V <sub>ol</sub>			V <sub>cc</sub> -1.63	V		
Cycle to Cycle Jitter			11	25	ps RMS	1 Sigma		
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
	Vibration	Per MIL-STD-202, Method 201 & 204						
	Wave Solder Conditions	+260°C for 10 secs. Max.						
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm.cc/s of helium)						
	Solderability	Per EIAJ-STD-002						

- Internally terminated outputs. See load circuit diagram #4.
- Rise/Fall times are measured between V<sub>cc</sub> -0.98 V and V<sub>cc</sub> -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](http://www.mtronpti.com) for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.