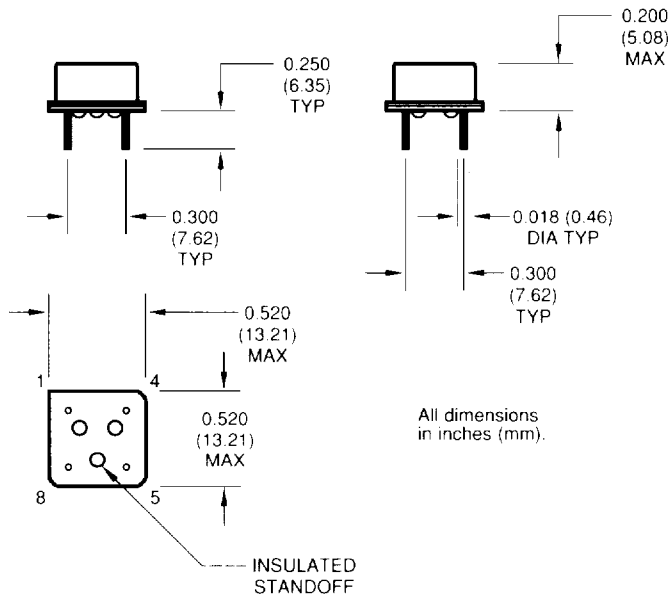


## MEH Series ECL Half-Size Clock Oscillators, 10KH Compatible with Optional Complementary Outputs



<b>Part Marking and Numbering</b>	<b>MEH</b>	<b>1</b>	<b>3</b>	<b>X</b>	<b>A</b>	<b>D</b>
<b>Product Series</b>	MEH					
<b>Temperature Range</b>	1: 0°C to +70°C    2: -40°C to +85°C 7: 0°C to +85°C					
<b>Stability</b>	1: ±1000 ppm    2: ±500 ppm 3: ±100 ppm    4: ±50 ppm					
<b>Output Type</b>	See additional information (Table 1)					
<b>Symmetry</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					

### MEH ECL Output Type

Table 1

Pin Functions:	A	B	C	H	J	K	L	M	N	R	W	X	Y	Z
Single Output Pin 5	■		■	■		■			■	■	■	■		
Dual Output Pin 1 & 5		■			■		■						■	■
Enable/Disable Pin 1			■							■				
Pin 4 Case Grd			■	■	■							■	■	■
Pin 8 Case Grd						■	■				■	■	■	
No Pin Case Grd	■	■						■	■					
Pin 4 + V <sub>CC</sub>						■	■	■	■					
Pin 4 - V <sub>EE</sub>	■	■								■	■	■	■	
Pin 8 + V <sub>CC</sub>	■	■	■									■	■	■
Pin 8 - V <sub>EE</sub>				■	■				■	■				

### Pin Connections

Pin	Function(s) (Model Dependent)
1	NC Output #2, E / D, GRD
4	-V <sub>EE</sub> or +V <sub>CC</sub> GRD
5	Output #1
8	+V <sub>CC</sub> or -V <sub>EE</sub> GRD

### Available Stabilities vs Temperature

T	S	1	2	3	4
1	A	A	S	A	
2	A	A	A	A	
7	A	A	A	A	

A = AVAILABLE  
S = STANDARD

### Electrical Specifications

(Standard Operating Conditions 0°C to +70°C; V<sub>CC</sub> = 5.0 ±5% V DC)

PARAMETERS	MIN.	TYP.	MAX.	UNITS
Frequency Range	40.000		200.000	MHz
Output Load	See test load circuit #4 on page 32.			
Symmetry	40/60		60/40	%
Logic "0" Level			V <sub>CC</sub> -1.63	V
Logic "1" Level	V <sub>CC</sub> -0.98			V
Rise/Fall Time			2.5	ns
Supply Current		35	60	mA

Internally terminated outputs

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