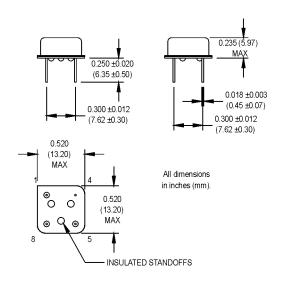
## SAMPLING

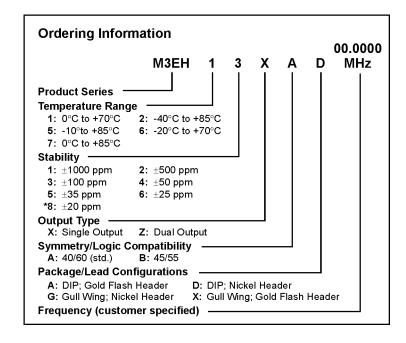
## M3EH Series Half-Size ECL/PECL Oscillators





## M3EH Series ECL/PECL Clock Oscillators, 10 KH **Compatible with Optional Complementary Outputs**





## **Pin Connections**

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

Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition
	Frequency Range	F	1.5		155.52	MHz	
	Frequency Stability	∆F/F	(See Ordering Information)				See Note 1
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	ů	
	Input Voltage	Vcc	3.15	3.3	3.45	٧	
	Input Current	lee/lcc		50	90	mA	
	Symmetry (Duty Cycle)		(See Ordering Information)				Vdd -1.3 V level
	Load		50 Ω to Vcc -2V or Thevenin Equivalent				
	Rise/Fall Time	Tr/Tf			2.5	ns	See Note 2
	Logic "1" Level	Voh	Vcc -1.025			٧	
	Logic "0" Level	Vol			Vcc -1.63	٧	
	Phase Jitter	φJ		10	25	ps RMS	Cycle-to-Cycle
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 s max.					
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm.cc/s of helium)					
п	Solderability	Per EIAJ-STD-002					

M-tron 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. No rights under any patent accompany the sale of such product.

<sup>1.</sup> Calibration, deviation over temperature, shock, vibration, and aging. 2. Rise/Fall times are measured between Vcc -1.025 V and Vcc -1.63 V.