

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

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

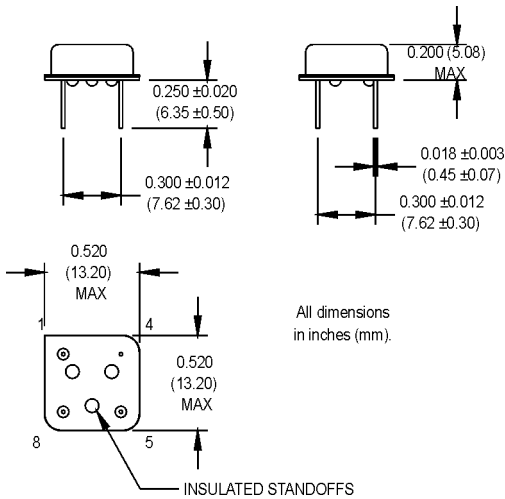
Package/Lead Configurations _____

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.

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 _A	(See Ordering Information)					
	Storage Temperature	T _s	-55		+125	°C		
	Input Voltage	V _{cc}	4.75	5.0	5.25	V		
	Input Current	I _{ee} /I _{cc}		35	60	mA		
	Symmetry (Duty Cycle)		(See Ordering Information)					V _{cc} -1.3 V level
	Load		130 Ω to V _{cc} -2V or Thevenin Equivalent					See Note 1
	Rise/Fall Time	T _r /T _f			2.5	ns	See Note 2	
	Logic "1" Level	V _{oh}	V _{cc} -0.98			V		
Logic "0" Level	V _{ol}			V _{cc} -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	See page 147						
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ 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_{cc} -0.98 V and V_{cc} -1.63 V.

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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

