

ME Series

14 pin DIP, 5.0 Volt, ECL, PECL, Clock Oscillator



ME Series ECL/PECL Clock Oscillators, 10 KH Compatible with Optional Complementary Outputs



Pin Connections

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

Ordering Information

ME	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 Wng; 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.

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition	
Electrical Specifications	Frequency Range	F	19.44		155.52	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	+260°C for 10 secs. Max.						
	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.

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.