

# 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

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

\*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 <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.

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