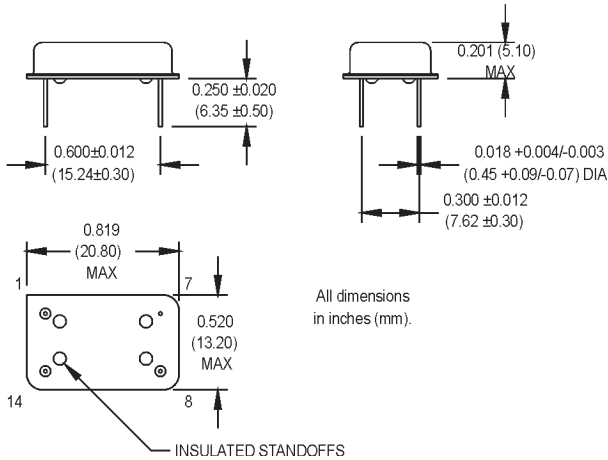


# ME Series

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

\*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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