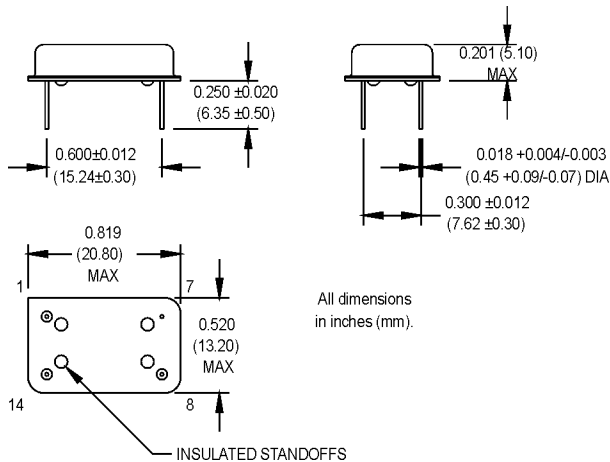


ME Series 5.0 Volt ECL/PECL Compatible Oscillators



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



See page 90 for gull wing configuration.

Ordering Information

	ME	1	3	X	A	D	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						
Frequency (customer specified)	_____						

*Contact factory for availability.

Pin Connections

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

	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	Tr/Tf			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 s max.						
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)						
	Solderability	Per EIAJ-S-002						

- Internally terminated outputs. See load circuit diagram #4 on page 92.
- Rise/Fall times are measured between V_{cc} -0.98 V and V_{cc} -1.63 V.

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