

**PART NUMBERING GUIDE**

**Environmental/Mechanical Specifications on page F5**

**OEH 100 48 A T - 30.000MHz**

**Package**  
OEH = 14 Pin Dip / 5.0Vdc / HCMOS-TTL  
OEH3 = 14 Pin Dip / 3.3Vdc / HCMOS-TTL

**Pin One Connection**  
Blank = No Connect, T = Tri State Enable High

**Output Symmetry**  
Blank = 40/60%, A = 45/55%

**Inclusive Stability**  
100= +/-100ppm, 50= +/-50ppm, 30= +/-30ppm, 25= +/-25ppm,  
20= +/-20ppm, 15= +/-15ppm, 10= +/-10ppm

**Operating Temperature Range**  
Blank = 0°C to 70°C, 27 = -20°C to 70°C, 48 = -40°C to 85°C

**ELECTRICAL SPECIFICATIONS**

**Revision: 1995-B**

<b>Frequency Range</b>	250kHz to 106.250MHz	
<b>Operating Temperature Range</b>	0°C to 70°C / -20°C to 70°C / -40°C to 85°C	
<b>Storage Temperature Range</b>	-55°C to 125°C	
<b>Supply Voltage</b>	5.0Vdc ±10%, 3.3Vdc ±10%	
<b>Input Current</b>	250.000kHz to 24.000MHz 24.001MHz to 50.000MHz 50.001MHz to 66.667MHz 66.668MHz to 106.250MHz	30mA Maximum 45mA Maximum 60mA Maximum 80mA Maximum
<b>Frequency Tolerance / Stability</b>	Inclusive of Operating Temperature Range, Supply Voltage and Load	±100ppm, ±50ppm, ±30ppm, ±25ppm, ±20ppm, ±15ppm or ±10ppm (20, 15, 10 = 0°C to 70°C Only)
<b>Output Voltage Logic High (Voh)</b>	w/TTL Load w/HCMOS Load	2.4Vdc Minimum Vdd -0.5Vdc Minimum
<b>Output Voltage Logic Low (Vol)</b>	w/TTL Load w/HCMOS Load	0.4Vdc Maximum 0.5Vdc Maximum
<b>Rise Time</b>	0.4Vdc to 2.4Vdc w/TTL Load; 20% to 80% of Waveform w/HCMOS Load <=66.667MHz.	5nSeconds Maximum
<b>Fall Time</b>	0.4Vdc to 2.4Vdc w/TTL Load; 20% to 80% of Waveform w/HCMOS Load >66.667MHz.	3nSeconds Maximum
<b>Duty Cycle</b>	@ 1.4Vdc w/TTL Load; @50% w/HCMOS Load @ 1.4Vdc w/TTL Load or w/HCMOS Load @ 50% of Waveform w/LSTTL or HCMOS Load >66.667MHz	50 ±10% (Standard) 50 ±5% (Optional) 50 ±5% (Optional)
<b>Load Drive Capability</b>	250.000kHz to 24.000MHz 24.001MHz to 66.667MHz 66.668MHz to 150.000MHz	10TTL or 50pF HCMOS Load 10TTL or 15pF HCMOS Load 10LSTTL or 15pF HCMOS Load
<b>Pin 1 Tristate Input Voltage</b>	No Connection VIH VIL	Enables Output +2.2Vdc Minimum to Enable Output +0.8Vdc Maximum to Disable Output
<b>Aging (@ 25°C)</b>	±5ppm / year Maximum	
<b>Start Up Time</b>	10mSeconds Maximum	
<b>Absolute Clock Jitter</b>	±100pSeconds Maximum	
<b>One Sigma Clock Jitter</b>	±25pSeconds Maximum	

**MECHANICAL DIMENSIONS**

**Marking Guide**

Line 1: Blank or 3 - Frequency  
Line 2: CEI YM

Blank = 5.0V  
3 = 3.3V  
CEI = Caliber Electronics Inc.  
YM = Date Code (Year / Month)

Pin 1: No Connect or Tri-State	Pin 8: Output
Pin 7: Case Ground	Pin 14: Supply Voltage