

PART NUMBERING GUIDE

Environmental/Mechanical Specifications on page F5

Package		OAH 100 48 A T - 30.000MHz	Pin One Connection
OAH = 14 Pin Dip / 5.0Vdc / HCMOS-TTL			Blank = No Connect, T = Tri State Enable High
OAH3 = 14 Pin Dip / 3.3Vdc / HCMOS-TTL			
OBH = 8 Pin Dip / 5.0Vdc / HCMOS-TTL			Output Symmetry
OBH3 = 8 Pin Dip / 3.3Vdc / HCMOS-TTL			Blank = 40/60%, A = 45/55%
Inclusive Stability			Operating Temperature Range
100= +/-100ppm, 50= +/-50ppm, 30= +/-30ppm, 25= +/-25ppm, 20= +/-20ppm, 15= +/-15ppm, 10= +/-10ppm			Blank = 0°C to 70°C, 27 = -20°C to 70°C, 48 = -40°C to 85°C

ELECTRICAL SPECIFICATIONS

Revision: 1994-C

Frequency Range		250kHz to 200.000MHz
Operating Temperature Range		0°C to 70°C / -20°C to 70°C / -40°C to 85°C
Storage Temperature Range		-55°C to 125°C
Supply Voltage		5.0Vdc ±10%, 3.3Vdc ±10%
Input Current	250.000kHz to 24.000MHz	25mA Maximum
	24.001MHz to 50.000MHz	30mA Maximum
	50.001MHz to 66.667MHz	60mA Maximum
	66.668MHz to 200.000MHz	80mA Maximum
Frequency Tolerance / Stability		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)
Output Voltage Logic High (Voh)		w/TTL Load w/HCMOS Load 2.4Vdc Minimum Vdd -0.5Vdc Minimum
Output Voltage Logic Low (Vol)		w/TTL Load w/HCMOS Load 0.4Vdc Maximum 0.5Vdc Maximum
Rise Time		0.4Vdc to 2.4Vdc w/TTL Load; 20% to 80% of Waveform w/HCMOS Load <=66.667MHz.
Fall Time		0.4Vdc to 2.4Vdc w/TTL Load; 20% to 80% of Waveform w/HCMOS Load >66.667MHz.
Duty Cycle		@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)
Load Drive Capability		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
Pin 1 Tristate Input Voltage		No Connection VIH VIL Enables Output +2.2Vdc Minimum to Enable Output +0.8Vdc Maximum to Disable Output
Aging (@ 25°C)		±5ppm / year Maximum
Start Up Time		10mSeconds Maximum
Absolute Clock Jitter		±100pSeconds Maximum
One Sigma Clock Jitter		±25pSeconds Maximum

MECHANICAL DIMENSIONS

Marking Guide on page F3-F4

14 Pin Full Size All Dimensions in mm.		8 Pin Half Size All Dimensions in mm.	
Pin 1: No Connect or Tri-State Pin 7: Case Ground	Pin 8: Output Pin 14: Supply Voltage	Pin 1: No Connect or Tri-State Pin 4: Case Ground	Pin 5: Output Pin 8: Supply Voltage