

**PART NUMBERING GUIDE**

**Environmental/Mechanical Specifications on page F5**

**Package** \_\_\_\_\_ **OAE 100 27 AA C - 30.000MHz**

OAE = 14 Pin Dip / ±5.2Vdc / ECL  
 OAP = 14 Pin Dip / +5.0Vdc / PECL  
 OAP3 = 14 Pin Dip / +3.3Vdc / PECL

**Inclusive Stability** \_\_\_\_\_  
 100= +/-100ppm, 50= +/-50ppm, 25= +/-25ppm,  
 10= +/-10ppm @ 25°C / +/-20ppm @ 0-70°C

**Operating Temperature Range** \_\_\_\_\_  
 Blank = 0°C to 70°C  
 27 = -20°C to 70°C (50ppm and 100ppm Only)  
 48 = -40°C to 85°C (50ppm and 100ppm Only)

**Pin One Connection**  
 Blank = No Connect  
 C = Complimentary Output

**Pin Configuration**  
 See Table Below  
 ECL = AA, AB, AC, AB  
 PECL = A, B, C, E

**ELECTRICAL SPECIFICATIONS**

**Revision: 1994-B**

<b>Frequency Range</b>	20.000MHz to 250.000MHz
<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>	ECL = ±5.2Vdc ±5% PECL = +5.0Vdc ±5% / +3.3Vdc ±5%
<b>Input Current</b>	140mA Maximum
<b>Frequency Tolerance / Stability</b>	Inclusive of Operating Temperature Range, Supply Voltage and Load ±100ppm, ±50ppm, ±25ppm, ±10ppm/±20ppm (0°C to 70°C)
<b>Output Voltage Logic High (Voh)</b>	ECL Output: -1.0Vdc Minimum / -0.7Vdc Maximum PECL Output: 4.0Vdc Minimum / 4.5Vdc Maximum
<b>Output Voltage Logic Low (Vol)</b>	ECL Output: -1.95Vdc Minimum / -1.6Vdc Maximum PECL Output: 3.0Vdc Minimum / 3.42Vdc Maximum
<b>Rise Time / Fall Time</b>	20% to 80% of Waveform 2nSeconds Maximum
<b>Duty Cycle</b>	@1.4Vdc w/TTL Load 50 ±10% (Standard), 50±5% (Optional)
<b>Load Drive Capability</b>	ECL Output / AA, AB, AM / AC PECL Output 50 Ohms into -2.0Vdc / 50 Ohms into +3.0Vdc 50 Ohms into +3.0Vdc
<b>Aging (@ 25°C)</b>	±5ppm / year Maximum
<b>Start Up Time</b>	20mSeconds Maximum

**ECL PIN CONFIGURATIONS PECL**

	AA	AB	AM	A	C	D	E
<b>Pin 1</b>	Ground/ Case	No Connect or Comp. Output	No Connect or Comp. Output	No Connect	No Connect	PECL Comp. Out	PECL Comp. Out
<b>Pin 7</b>	-5.2V	-5.2V	Case Ground	Vee (Case Ground)	Vee	Vee	Vee (Case Ground)
<b>Pin 8</b>	ECL Output	ECL Output	ECL Output	PECL Output	PECL Output	PECL Output	PECL Output
<b>Pin 14</b>	Ground	Case Ground	-5.2Vdc	Vcc (Case Ground)	Vcc (Case Ground)	Vcc	Vcc

**MECHANICAL DIMENSIONS**

**Marking Guide**

13.2 MAX  
20.8 MAX  
7.620 ±.203  
15.240 ±0.203  
0.457 ±0.1 (X4)  
0.9 MAX  
5.08 MAX  
5.08 MIN  
Insulated Standoffs (Glass)

CALIBER  
PART NUMBER  
FREQUENCY  
DATE CODE

**14 Pin Full Size**  
All Dimensions in mm.

**Marking Guide**  
 Line 1: Caliber  
 Line 2: Complete Part Number  
 Line 3: Frequency in MHz  
 Line 4: Date Code (Year/Week)