

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

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

ECL PIN CONFIGURATIONS PECL

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