

PART NUMBERING GUIDE

Environmental/Mechanical Specifications on page F5

Package _____ **OAE 100 27 AA C - 30.000MHz**

OAE = 14 Pin Dip / $\pm 5.2\text{Vdc}$ / ECL
OAP = 14 Pin Dip / $+5.0\text{Vdc}$ / PECL
OAP3 = 14 Pin Dip / $+3.3\text{Vdc}$ / PECL

Inclusive Stability

100= $\pm 100\text{ppm}$, 50= $\pm 50\text{ppm}$, 25= $\pm 25\text{ppm}$,
10= $\pm 10\text{ppm}$ @ 25°C / $\pm 20\text{ppm}$ @ $0-70^\circ\text{C}$

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 = $\pm 5.2\text{Vdc} \pm 5\%$ PECL = $+5.0\text{Vdc} \pm 5\%$ / $+3.3\text{Vdc} \pm 5\%$
Input Current	140mA Maximum
Frequency Tolerance / Stability	Inclusive of Operating Temperature Range, Supply Voltage and Load $\pm 100\text{ppm}$, $\pm 50\text{ppm}$, $\pm 25\text{ppm}$, $\pm 10\text{ppm} \pm 20\text{ppm}$ (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 $50 \pm 10\%$ (Standard), $50 \pm 5\%$ (Optional)
Load Drive Capability	ECL Output / AA, AB, AM / AC PECL Output 50 Ohms into -2.0Vdc / 50 Ohms into $+3.0\text{Vdc}$ 50 Ohms into $+3.0\text{Vdc}$
Aging (@ 25°C)	$\pm 5\text{ppm}$ / year Maximum
Start Up Time	20mSeconds Maximum

ECL

PIN CONFIGURATIONS

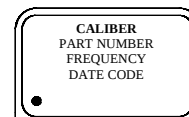
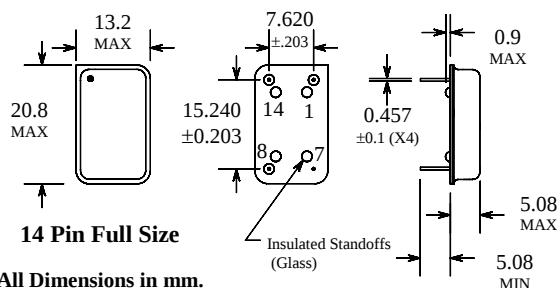
PECL

	AA	AB	AM
Pin 1	Ground/ Case	No Connect or Comp. Output	No Connect or Comp. Output
Pin 7	-5.2V	-5.2V	Case Ground
Pin 8	ECL Output	ECL Output	ECL Output
Pin 14	Ground	Case Ground	-5.2Vdc

	A	C	D	E
Pin 1	No Connect	No Connect	PECL Comp. Out	PECL Comp. Out
Pin 7	Vee (Case Ground)	Vee	Vee	Vee (Case Ground)
Pin 8	PECL Output	PECL Output	PECL Output	PECL Output
Pin 14	Vcc	Vcc (Case Ground)	Vcc	Vcc

MECHANICAL DIMENSIONS

Marking Guide



Marking Guide

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