

HYBRID CLOCK OSCILLATORS TTL, CMOS, ECL & SINEWAVE



PIN CONNECTIONS:

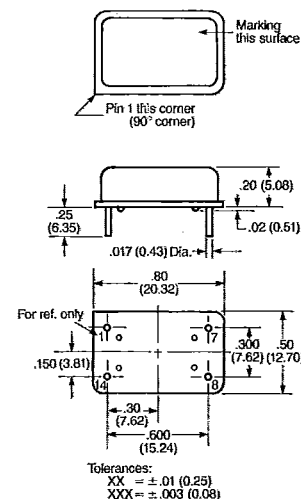
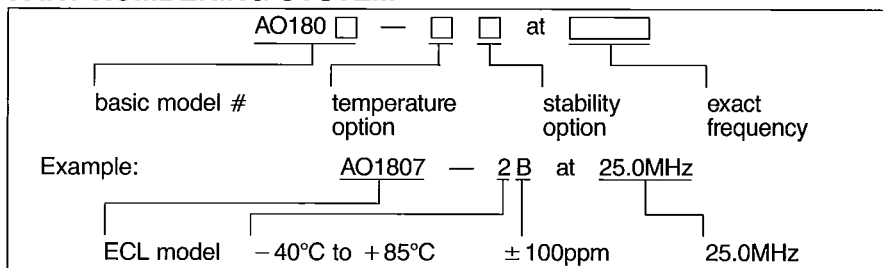
Model : AO1805, AO1806, AO1808

Pin 1 : NC
Pin 7 : OV & case GND
Pin 8 : output
Pin 14 : V_{CC}

Model : AO1807

Pin 1 : NC
Pin 7 : -5.2V
Pin 8 : output
Pin 14 : OV & case GND

PART NUMBERING SYSTEM



SPECIFICATIONS

Frequency range	TTL	CMOS	ECL	Sinewave
1.0Hz to 4.99MHz	AO1805	AO1806	N/A	N/A
5.0MHz to 19.99MHz	AO1805	AO1806	AO1807	AO1808
20.0MHz to 59.99MHz	AO1805	AO1806	AO1807	AO1808
60.0MHz to 99.99MHz	AO1805	N/A	AO1807	AO1808
100.0MHz to 135.0MHz	N/A	N/A	AO1807 ④	AO1808 ④
Input voltage	+5.0VDC $\pm$ 10%	+5 to +15VDC $\pm$ 10% from 1Hz to 5MHz 5VDC $\pm$ 10% 5MHz to 60MHz	-5.2VDC $\pm$ 5%	+5.0VDC $\pm$ 5%
Input current ①	85mA max.	30mA max.	75mA max.	60mA max.
Output voltage and Load	0.4V max. to 2.4V min. up to 10 STD. TTL loads 1Hz to 19.99MHz 0.5V max. to 2.4V min. up to 10 Schottky loads 20MHz to 100MHz	0.5V max. to V _{DD} - 0.5V min. up to 10CMOS loads	-0.89VDC $\pm$ 0.18V to -1.75VDC $\pm$ 0.15V (50 Ω to -2.0V)	+3dBm min. into 50 Ω
Symmetry	55/45 max. 1Hz to 4.99MHz 60/40 max. 5MHz to 100MHz measured at 1.5V	55/45 max. 1Hz to 4.99MHz 60/40 max. 5MHz to 40MHz measured at 50%	60/40 max. measured at 50%	harmonics: -20dBc max.

Notes:

Notes:
(1) Input current is dependent on frequency. Actual currents will typically be much lower than the maximum.

(2) Storage temperature range for all models is -62°C to $+125^{\circ}\text{C}$.

(3) Other options such as multiple outputs, enable inputs, frequency adjustment, tighter frequency tolerances and MIL-STD-883

screening are readily available—contact the factory for details.

(4) Higher frequencies available in 24-pin DIP package.

ABSOLUTE FREQUENCY STABILITY OPTIONS

A	$\pm 50\text{ppm}$ ($\pm .005$ %)
B	$\pm 100\text{ppm}$ ($\pm .01$ %)
C	$\pm 500\text{ppm}$ ($\pm .05$ %)
D	$\pm 1000\text{ppm}$ ($\pm .10$ %)
E	$\pm 10000\text{ppm}$ (± 1.0 %)
F	$\pm 25\text{ppm}$ ($\pm .0025\%$)

OPERATING TEMPERATURE RANGE OPTIONS

-1	0°C to +70°C
-2	-40°C to +85°C
-3	-55°C to +105°C
-4	-55°C to +125°C