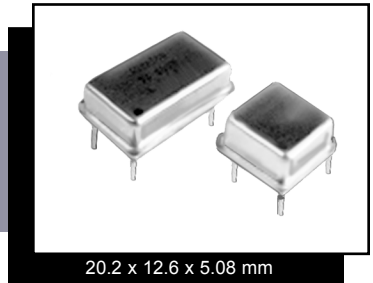


5Vdc or 3.3Vdc • FULL-SIZE and HALF-SIZE DIP • HCMOS OR TTL
PROGRAMMABLE CLOCK OSCILLATORS
ACOP and ACHP series



20.2 x 12.6 x 5.08 mm

FEATURES:

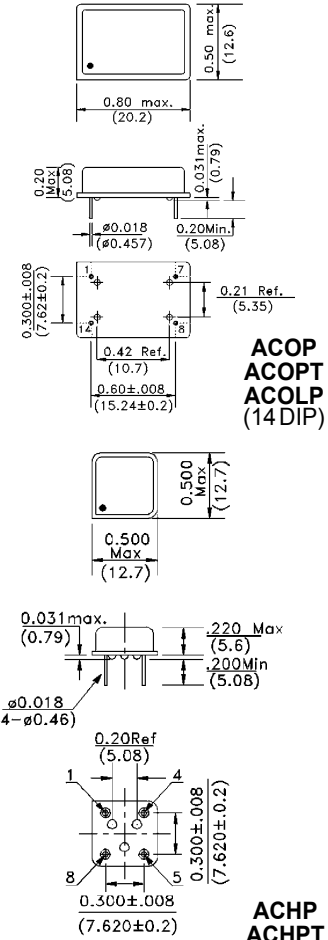
- Wide range of frequency up to 125MHz using PLL Technology.
- Quick delivery within one to five days for small quantities.
- Tristate E / D or Stand-By function.



APPLICATIONS:

- Clocks for a wide range of applications.

STANDARD SPECIFICATIONS			
PARAMETERS	ACOP ACHP	ACOPT ACHPT	ACOLP ACHLP
Frequency Range (F ₀)	1.00MHz - 125MHz		1.00MHz - 106.25MHz
Operating Temperature (T _{OPR})	-20°C to +70°C (see option)		
Storage Temperature (T _{STO})	-55°C to +125°C		
Frequency Stability (ΔF/ F ₀)	± 100ppm max. (see option)		
Supply Voltage (V _{DD})	5.0Vdc ± 10%		3.3Vdc ± 10%
Input Current (I _{DD})	45mA max.		25mA max.
Duty Cycle or Symmetry	45/55% max.at 1/2 VDD	45/55% max.at 1.4 VDC	45/55% max.at 1/2 VDD
Rise and Fall Times (T _R / T _F)	4ns max.		
Output Load	25 pF max.	5TTL	15 pF max.
Output Voltage (V _{OH})	0.9*V _{DD} min.	2.4V min.	0.7*V _{DD} min.
(V _{OL})	0.4V max.	0.4V max.	0.2*V _{DD} max.
Start-up Time (T _{OSC})	10 ms max.		
Tristate (OE) Function	V _{IH} : 2.0V min. V _{IL} : 0.8V max.	Oscillation Hi Impedance	V _{IH} : 0.7*V _{DD} min. V _{IH} : 0.2*V _{DD} max.
Disable current (I _{DIS})	30mA max.		15mA max.
Stand - By current (Option - B)	50µA max.		20µA max.
Jitter Peak to peak	± 250ps max. for F ≤ 33MHz, ±100ps typ. ± 100ps max. for F > 33MHz, ±50ps typ.		± 250ps max. for F ≤ 33MHz, ±100ps typ. ± 125ps max. for F > 33MHz, ±75ps typ.
RMS One sigma	± 50ps max. for F ≤ 33MHz, ±30ps typ. ± 30ps max. for F > 33MHz, ±20ps typ.		± 50ps max. for F ≤ 33MHz, ±30ps typ. ± 30ps max. for F > 33MHz, ±20ps typ.
Aging	±5ppm max./Year		



Dimensions:
Inches (mm)

PIN # ACOP ACOPT ACOLP	PIN # ACHP ACHPT ACHLP	FUNCTION
1	1	OE or PD
7	4	GND
8	5	Output
14	8	V _{DD}

* Pin 1 has internal pull-up resistor which allows Pin 1 to be left floating (enable high). Connect a By-Pass capacitor 0.01 µF between V_{DD} and GND. Environmental, and mechanical specifications, see appendix C. Group 1. Reflow profile, see appendix E. Tape and Reel, see appendix H. Marking, see appendix G. Application notes, see appendix A. Value added, see appendix D.

ORDERING OPTIONS

ACXXPX - Temperature - Overall Frequency Stability - Stand By - Value added - Packaging

O or H | Blank or T | -F for -30°C to +70°C | -J for ± 20ppm max.* | -B | -G Gull Wing | -T Tape and Reel

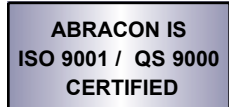
Blank | -N for -30°C to +85°C | -R for ± 25ppm max.* | -G2 Gull Wing | -TY Tray packing

L | -L for -40°C to +85°C | -K for ± 30ppm max. | -GHT Gull Wing Reflow capable

| -H for ± 35ppm max. | -C for ± 50ppm max. | -QXX (Trimmed Leads)

* Standard temperature only. Please call us for other tighter spec.

NOTE: Left blank if standard • All specifications and markings subject to change without notice



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