# 5Vdc • HCMOS/TTL COMPATIBLE FULL-SIZE DIP CRYSTAL CLOCK OSCILLATORS

**ACO** 





#### **FEATURES:**

- Wide frequency range.
- HCMOS and TTL compatible.
- Tight symmetry option.
- Tristate Enable/Disable options.
- Fast rise and fall times.
- Anti-Static packaging tube.

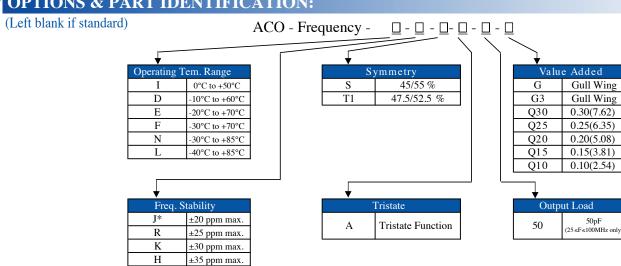
#### > APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits.
- High output drive capability applications.

## **STANDARD SPECIFICATIONS:**

PARAMETERS	
ABRACON P/N	ACO Series
Frequency:	320kHz to 200MHz
Operating temperature:	$-0^{\circ}$ C to $+70^{\circ}$ C (see options)
Storage temperature:	- 55°C to + 125°C
Frequency Stability:	± 100ppm max. (see option)
Supply voltage (Vdd):	$5.0 \text{Vdc} \pm 10\%$
Symmetry at 1/2Vdd for HCMOS or at 1.4Vdc for TTL	45/55% max. for F < 50MHz 40/60% max. for F $\geq$ 50MHz (see options)
Rise and Fall Times(Tr/Tf):	10 ns max. for $F \le 24 MHz$ 5 ns max. for $F > 24 MHz$ , 10 ns max. for $F > 24 MHz$ (50pF output load)
Output load:	10 TTL or 15 pF for F < $80$ MHz 5 TTL or 15 pF for F $\geq 80$ MHZ
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Tri State Function ( option A):	"1" (VIH >= 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8V): Hi Z
Start-up-time:	10 ms max
Oput Disable/ Enable time:	100 ns max. (for Option "-A" ONLY)
Input current:	30 mA max. for $F \le 24$ MHz 45 mA max. for $F < 50$ MHz 70 mA max. for $F < 80$ MHz 85 mA max. for $F \ge 80$ MHz

## > OPTIONS & PART IDENTIFICATION:



<sup>±50</sup> ppm max. Temp orption I, D, and E only.





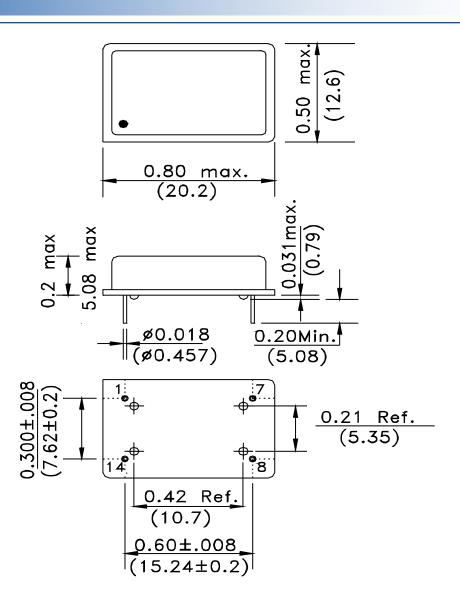
# 5Vdc • HCMOS/ TTL COMPATIBLE FULL-SIZE DIP CRYSTAL CLOCK OSCILLATORS

**ACO** 





### **OUTLINE DRAWING:**



The height of the package vary depending on the frequency >100MHz. Please contact ABRACON for the height information for F>100MHz.

PIN	FUNCTION
1	NC or Tristate
7	GND/Case
8	Output
14	VDD

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 7 and 14

Dimensions: Inches (mm)

**ATTENTION:** Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



