

# FULL SIZE DIP LOW VOLTAGE 3.3V CRYSTAL CLOCK OSCILLATOR



20.2 x 12.6 x 5.08 mm

ACOL Series



**RoHS**  
Compliant

## FEATURES:

- Tristate Enable/Disable option.
- Low supply voltage.
- HCMOS and TTL compatible.
- Tight symmetry option.

## APPLICATIONS:

- Clock signal sources for digital chips and microprocessors.
- Low power applications.

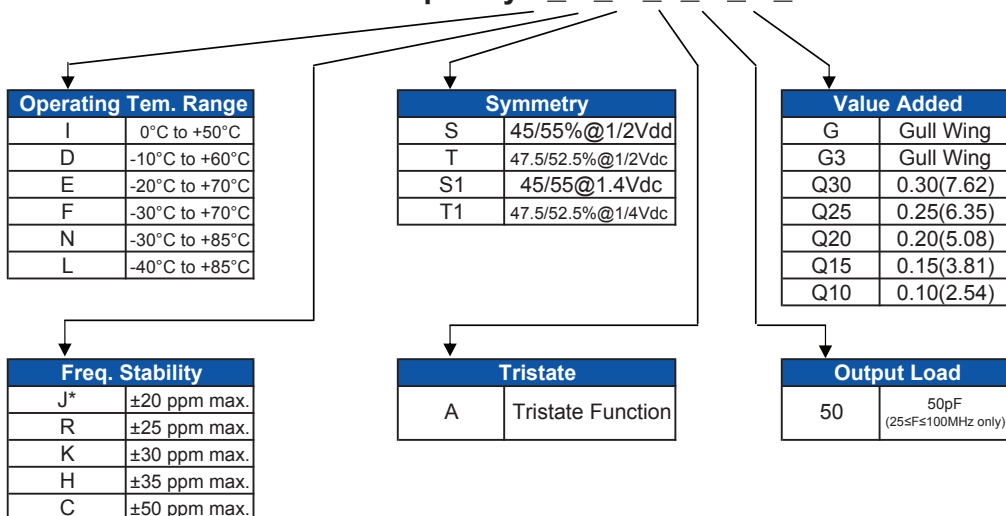
## STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ACOL Series
Frequency:	320kHz to 200MHz
Operating temperature:	0°C to + 70°C (see options)
Storage temperature:	- 55°C to + 125°C
Frequency Stability:	± 100ppm max. (see option)
Supply voltage (Vdd):	3.3Vdc ± 10%
Symmetry at 1/2Vdd for HCMOS or at 1.4Vdc for TTL	45/55% max. for F < 50MHz 40/60% max. for F ≥ 50MHz (see options)
Rise and Fall Times(Tr/Tf):	10 ns max. for F ≤ 24MHz 5 ns max. for F > 24MHz, 10 ns max. for F > 24MHz (50pF output load)
Output load:	10 TTL or 15 pF for F < 80MHz 5 TTL or 15 pF for F ≥ 80MHz
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:	20 mA max. for F ≤ 24 MHz 30 mA max. for F < 50 MHz 45 mA max. for F < 80 MHz 55 mA max. for F ≥ 80 MHz

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACOL - Frequency - □ - □ - □ - □ - □ - □



\* Temp orption I, D, E, and 0 to +70°C only.

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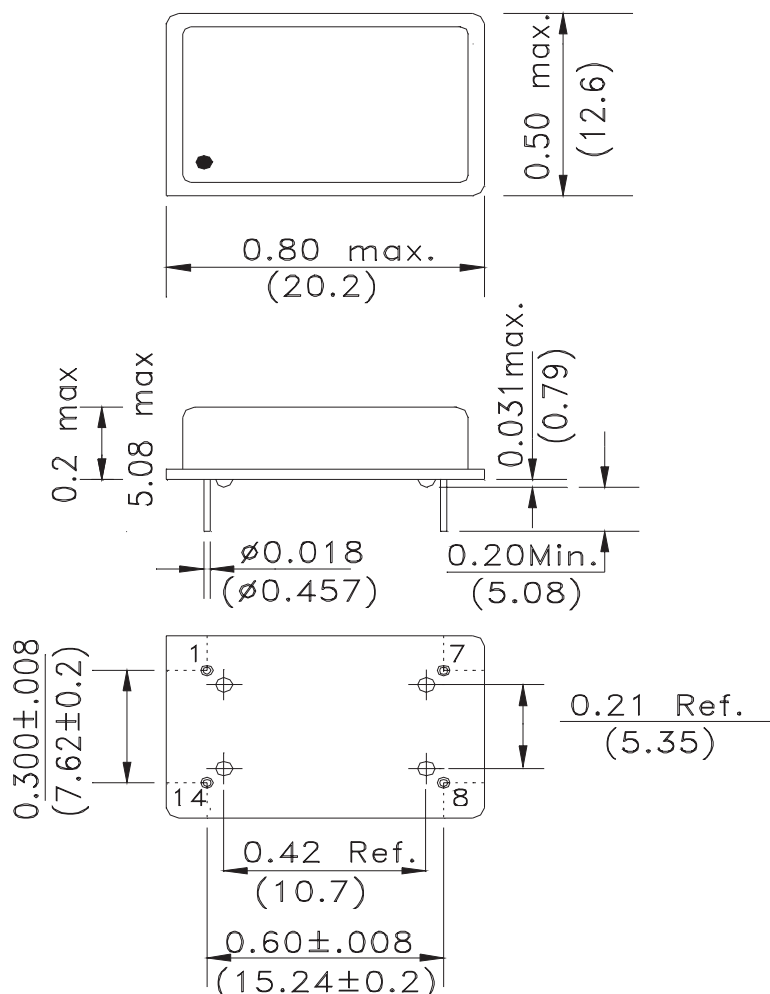


RoHS  
Compliant



20.2 x 12.6 x 5.08 mm

## OUTLINE DIMENSIONS:



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.

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