

FULL SIZE DIP LOW VOLTAGE 2.5V CRYSTAL CLOCK OSCILLATOR

ACOL1 Series



RoHS
Compliant



20.2 x 12.6 x 5.08 mm

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	ACOL1 Series
Frequency:	1.00MHz to 85.0 MHz
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):	2.5Vdc ± 10%
Symmetry:	40/60% max. (see options)
Rise and Fall Times(Tr/Tf):	10 ns max.
Output load:	5 TTL or 15 pF
Output Voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Tri State Function (option A):	"1" (VIH >= 1.8 Vdc) or open: Oscillation "0" (VIL < 0.4V): Hi Z
Start-up-time:	10 ms max
Opurt Disable/ Enable time:	100 ns max. (for Option "-A" ONLY)
Input current:	15 mA max.

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACOL1 - Frequency - - - - - - - -

Temperature Options	
D	-10°C to +60°C
E	-20°C to +70°C
F	-30°C to +70°C
N	-30°C to +85°C
L	-40°C to +85°C

Freq. Stability	
R	±25 ppm max.
K	±30 ppm max.
H	±35 ppm max.
C	±50 ppm max.

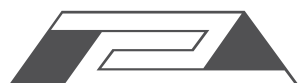
Symmetry Options	
S	45/55% @ 1/2Vdd

Tristate Enable Funct	
A	Tristate Function

Packaging	
TY	Tray

Value Added Option	
G	Gull Wing
G2	Gull Wing
Q30	0.30(7.62)
Q25	0.25(6.35)
Q20	0.20(5.08)
Q15	0.15(3.81)
Q10	0.10(2.54)

ABRACON IS
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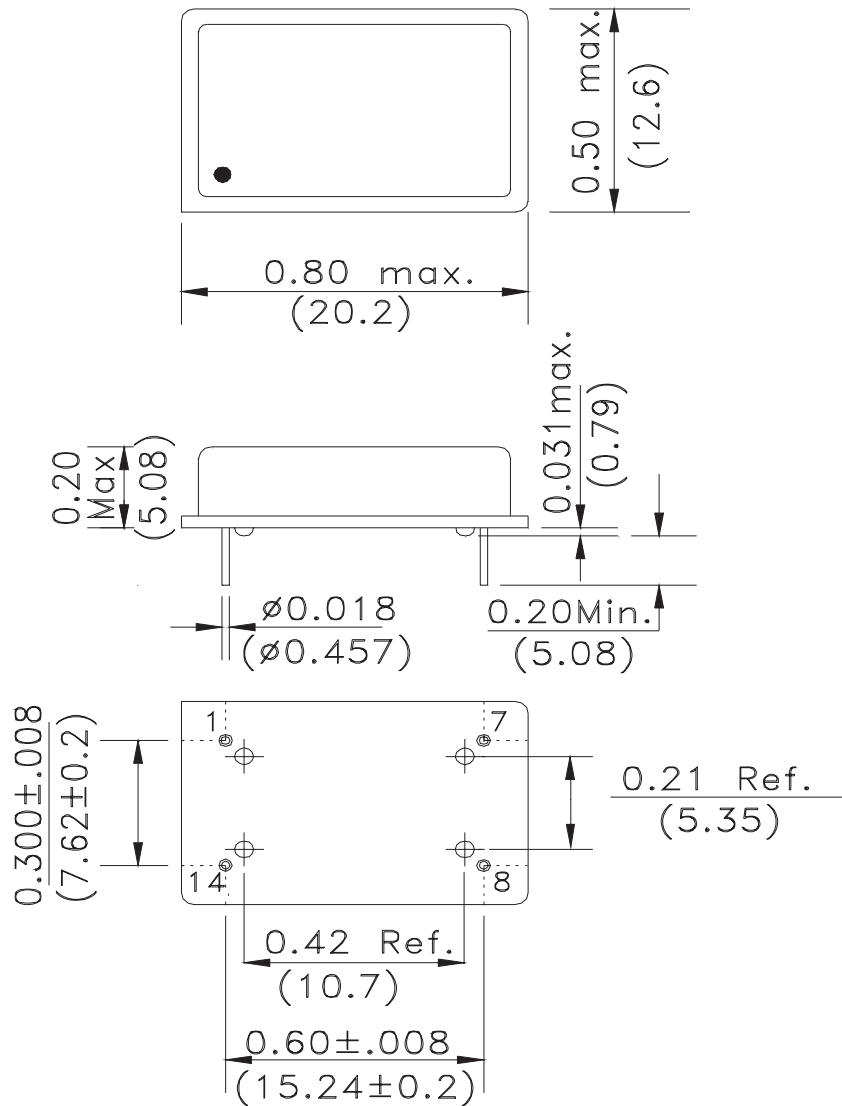


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OUTLINE DIMENSIONS:



PIN	FUNCTION
1	NC or Tristate Enable/ Disable
4	GND/Case
5	Output
8	VDD

Note: Recommended using an approximately 0.01uF bypass capacitor between PIN 4 and 8.

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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