

TTL OUTPUT FULL SIZE DIP 5.0V CRYSTAL CLOCK OSCILLATOR



20.4 x 12.9 x 5.3mm

ACT Series



**RoHS
Compliant**

FEATURES:

- Hermetically sealed metal package
- TTL output
- Case ground for EMI protection
- Tri-state Enable/Disable options

APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits
- TTL output for low EMI applications

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ACT Series
Frequency:	400kHz to 160MHz
Operating temperature:	-10°C to +60°C (see options)
Storage temperature:	- 55°C to + 125°C
Frequency Stability:	± 100ppm max. (see options)
Supply voltage (Vdd):	5.0Vdc ± 10%
Input current:	See Table 1
Symmetry @ 1.4Vdc:	40/60% max. @ 1.4V (see option)
Rise and Fall Times(Tr/Tf):	See Table 1
Output load:	10 TTL max.
Output Voltage:	VOH = 2.4 * Vdd min. VOL = 0.4*Vdd max.
Tri State Function:	"1" (VIH >= 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8V): Hi Z
Output Disable/ Enable time:	100 ns max. (for Option "-A" ONLY)
Start-up-time:	10 to 35 ms max

Table 1

Frequency (MHz)	Input current Idd (mA)	Rise and Fall Time Tr/Tf (ns)
400.0kHz F≤24.9MHz	20	10
25.0MHz F≤100.0MHz	40	5
100.0MHz F≤160.0MHz	80	4

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACT - Frequency - □ - □ - □ - □ - □ - □

Temperature Options	
I	0°C to +50°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	
Y5*	±15 ppm max.
J*	±20 ppm max.
R**	±25 ppm max.
K	±30 ppm max.
H	±35 ppm max.
C	±50 ppm max.

* Available for temp options I and E only

** Available for temp options I, E, F, and N only

Symmetry Options	
S*	45/55% @ 1/4V

* F<70 only.

Tristate Enable Funct	
A	Tristate Function

Packaging	
T	Tape and Reel
TY	Tray

Value Added Option	
G	Gull Wing
G3	Gull Wing
GHT	Gull Wing reflow
Q45	0.45(11.43)
Q40	0.40(10.16)
Q35	0.35(8.89)
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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ACT Series

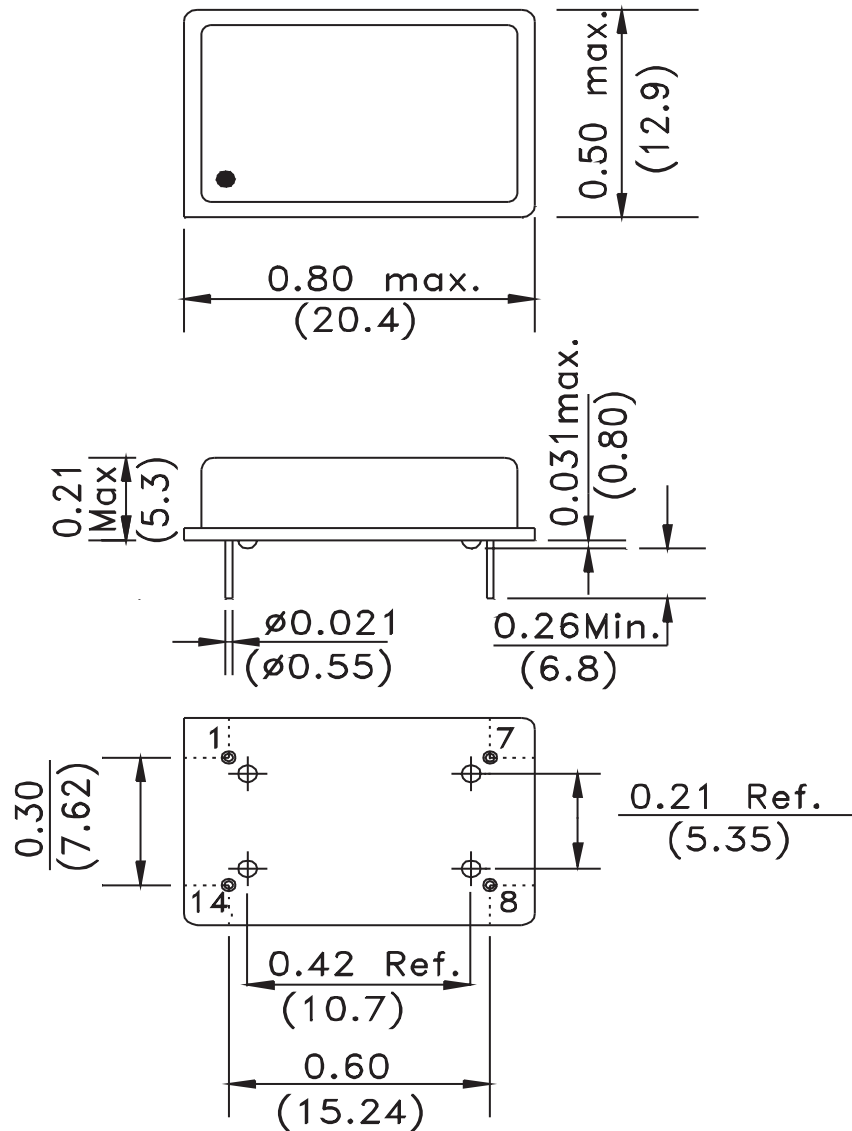


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20.4 x 12.9 x 5.3mm

OUTLINE DIMENSIONS



PIN	FUNCTION
1	NC or Tristate Enable/ Disable
7	GND/Case
8	Output
14	Vdd

Note: Remomended using a 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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