5.0V HCMOS/TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR

ASL Series



7.0 x 5.08 x 1.8 mm

Pb RoHS Compliant

FEATURES:

- HCMOS and TTL compatible.
- Available optional -40°C to 85°C extended temperature.
- Tri-state Enable/Disable function.
- IR reflow capable
- Seam sealed.

APPLICATIONS:

- Provide clock signals for microprocessors, PC mainboards, Graphic cards.
- High output drive capability applications.
- Personal computer, Laptop computer

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N:	ASL Series
Frequency range:	1.000 ~ 125.000 MHz
Operating temperature:	-10° C to + 70° C (See Options)
Storage temperature:	- 55° C to + 125° C
Overall frequency stability:	± 100 ppm max. (see options)
Supply voltage (Vdd):	5.0 V ± 10%
Input current:	See Table 1
Symmetry at 1/2Vdd:	40/60 % max. (see options)
Rise and fall time (Tr/Tf):	See Table 1
Output load:	10TTL or 50 pF (1MHz to 70MHz) 10TTL or 15 pF (70.001MHz to 125MHz)
Output voltage:	VOH = 0.9 * Vdd min. VOL = 0.4 * Vdc max.
Start-up time:	10 ms max.
Tri-state function :	"1" (VIH ≥ 0.7*Vdd) or open: Oscillation "0" (VIL < 0.3*Vdd) : Hi Z
Aging at 25°C/year:	±5ppm max.
RMS jitter:	± 25ps max.
Peak to Peak jitter:	± 100ps max.
Power down curent (B option):	10µA max.

Table 1

Freq. (MHz)	Idd max. (mA)	Tr/Tf max. (nSec)	Freq. (MHz)	Idd max. (mA)	Tr/Tf max. (nSec)
1.0 ~ 34.99	25	10	60.01~100.0	60	5
35.0 ~ 60.0	40	5	100.01 ~ 125	80	2.5

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ASL - Frequency - □ - □ - □ - □ - □ - □

Operating Temp. Range	
I	0°C to +50°C
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

Overall Frequency Stability	
J*	±20ppm
R	±25ppm
K	±30ppm
H	±35ppm
C	±50ppm

*Temp. option I, D, E, and -10°C to +70°C only

Packaging	
Blank	Bulk
T	Tape & Reel (1k)
T5	Tape & Reel (500)

Power down	
Blank	Tri-state
B	Tri-state with PD

Symmetry	
S	45/55%@1/2Vdd
S1	45/55%@1/4Vdd

Output Load	
50	50pF

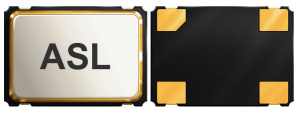
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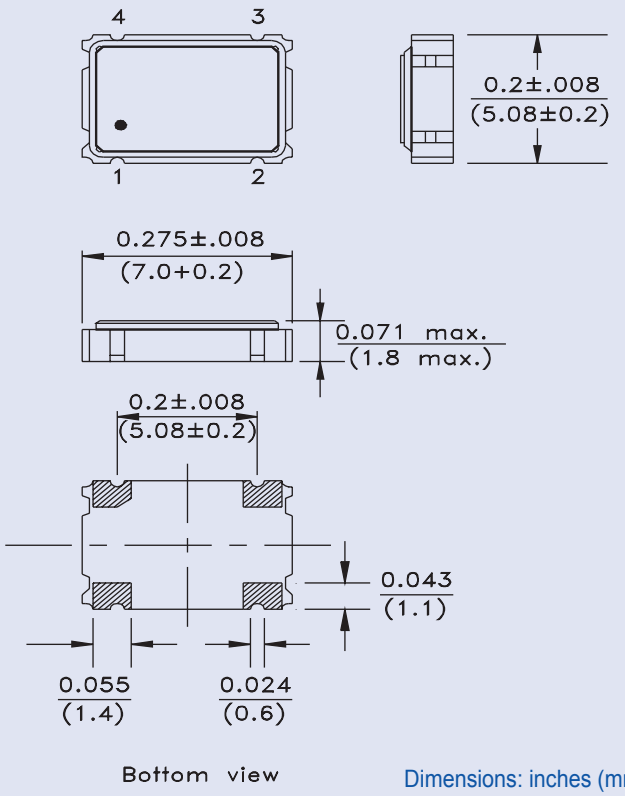
ASL Series



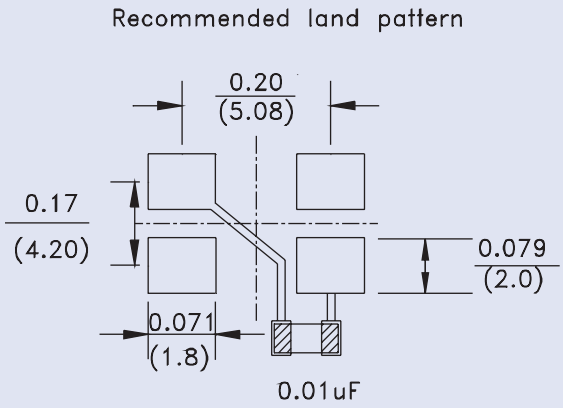
7.0 x 5.08 x 1.8 mm

Pb RoHS Compliant

OUTLINE DRAWING:



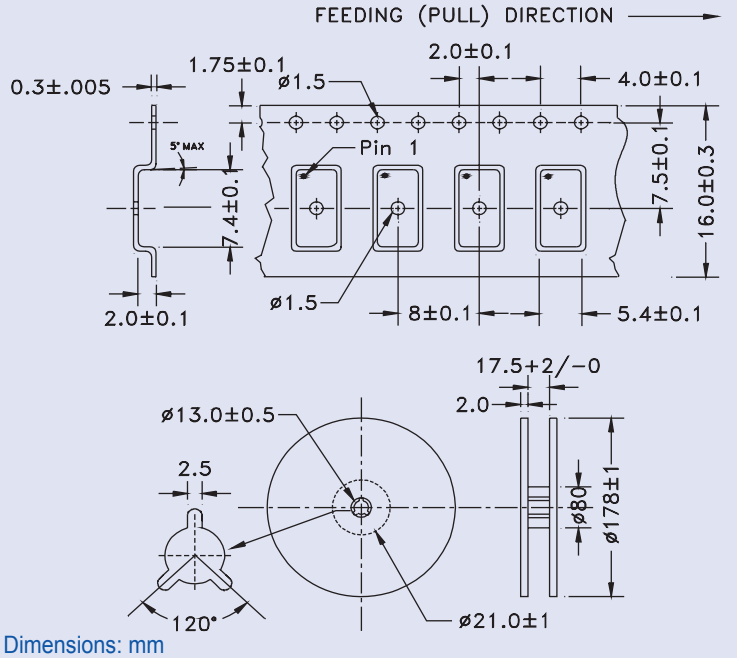
Dimensions: inches (mm)



PIN	FUNCTION
1	Tri-state Enable/Disable
2	GND/Case
3	Output
4	Vdd

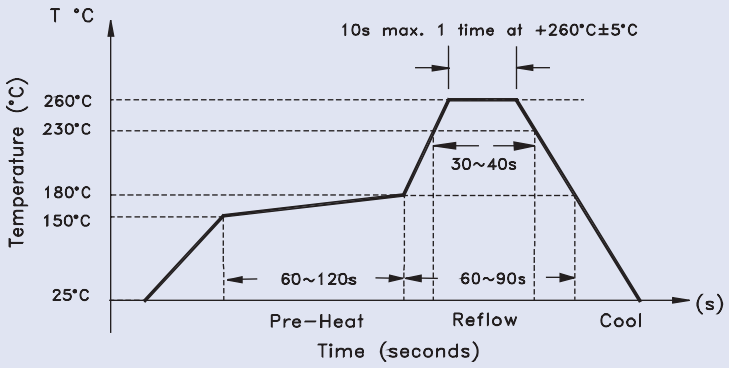
Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

TAPE & REEL:



Dimensions: mm

REFLOW PROFILE:





Need a test socket for the ASL Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, click here. **P/N: AXS-7050-04-01**

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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Global Electronic Components Distributor

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ABRACON:

AVR-1Z090509S90NLT ASEDV-16.000MHZ-LR-T ABS07-32.768KHZ-9-4-T ASEM1-8.000MHZ-LC-T
ABLS-16.000MHz-B-2-T AFS14A72-2436.00-T3 AEACAD460065-S698 ASPIAIG-F5030-1R0M-T
ASEMPC-25.000MHZ-LR-T ASEMB-8.000MHZ-LY-T AX7MCF1-644.53125C ATCA-03-111M-H
ABM11W-25.0000MHZ-4-B1U-T3 ABM8-26.000MHZ-10-B-1-U-T ABM8G-25.000MHz-B-4-Y-T3
ABMM2-20.000MHzE2-T ABM10AIG-12.000MHZ-D2Z-T3 ARJ11D-MDSE-A-B-EMU2
ABM10-19.200MHZ-12-R APAES1575R1040J34-T ABM8-30.000MHz-10-1U-T ATX-H11-F-25.000MHZ-F25-T
ABM3-20.000MHZ-B2-T ASDK-2-32.768KHZ-L-R-T AMPLA7030Q-100MT ABM11W-25.0000MHZ-4-D1X-T3
ABM10-24.000MHZ-E20-T ATFC-0402-2N3-BT ATFC-0402-6N8-B-T AISC-0805-R27J-T