

# 3.3 V, HCMOS/ TTL, J LEADED, PLASTIC MOLDED PROGRAMMABLE CLOCK OSCILLATOR

ASMLP SERIES



RoHS  
Compliant



14.0 x 8.95 x 4.7 mm

## FEATURES:

- Industry standard J-Leaded terminals
- Suitable for RoHS reflow
- Tri-state function
- 5.0 Vdc operation

## APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits.
- Communication equipment, AV and OA equipment

## STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ASMLP Series
Frequency range:	1.000MHz ~ 106.250MHz
Operating temperature:	-20° C to +70° C (see options)
Storage temperature:	-55° C to +125° C
Overall frequency stability:	± 100 ppm max. (see options)
Supply voltage (Vdd):	3.3Vdc ± 10%
Input current:	25 mA max.
Symmetry at 1/2VDD:	45/55 % max.
Rise and fall time (Tr/Tf):	4 ns max. @ 20% to 80% of waveform
Output load:	15pF max.
Output voltage:	VOH = 0.7*Vdd min. VOL = 0.2*Vdd max.
Tri-state function:	"1" (VIH >= 0.7* Vdd) or open: Oscillation "0" (VIL < 0.2* Vdd) : Hi Z
Start-up time:	10 ms max.
Disabled current (Stand-by):	20µA max.
Jitter (Peak to Peak):	± 250ps max. for F< 33MHz, ±100ps typ. ± 125ps max. for F>33MHz, ±75ps typ.
Jitter (RMS):	± 50ps max. for F< 33MHz, ± 30ps typ. ± 30ps max. for F>33MHz, ± 20ps typ.
Aging:	±5ppm/year maximum

## OPTIONS AND PART IDENTIFICATION

(Left blank if standard)

ASMLP -  MHz -  -  -

Frequency in MHz  
e.g. 24.576MHz  
14.31818MHz  
26.000MHz

Operating Temp.  
F: -30°C ~ +70°C  
N: -30°C ~ +85°C  
L: -40°C ~ +85°C

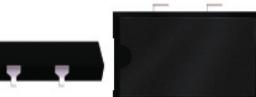
Freq. Stability  
over operating temp.  
Blank: ± 100 ppm  
R: ± 25 ppm \*  
C: ± 50 ppm

Packaging  
Blank: Bulk  
T: Tape & Reel

\*: Contact Abracon for availability

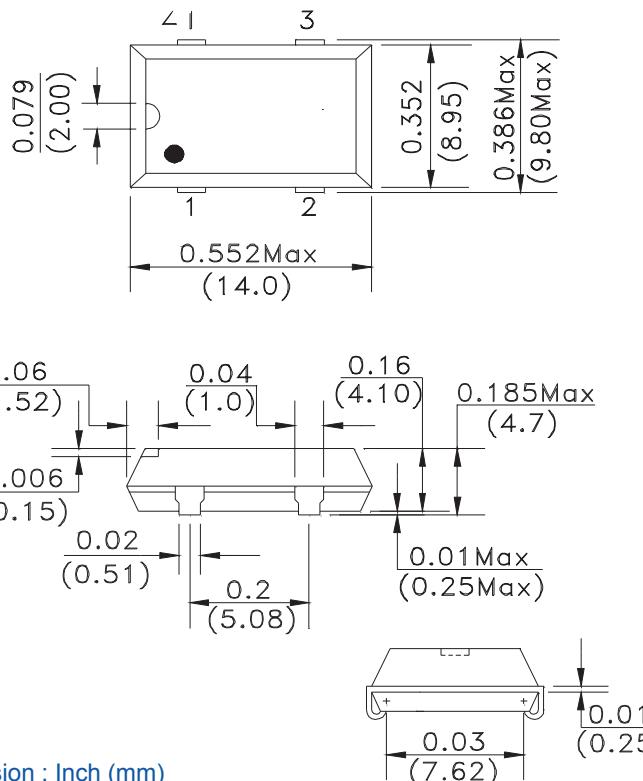
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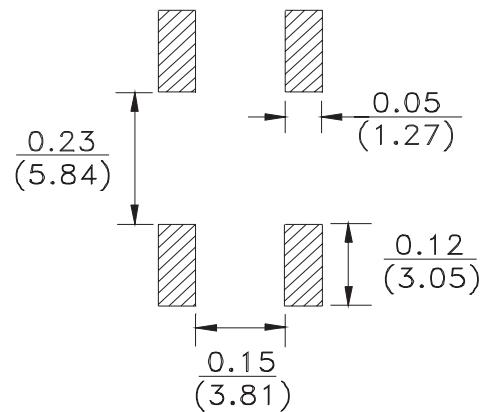
14.0 x 8.95 x 4.7 mm

## OUTLINE DRAWING:



Dimension : Inch (mm)

Recommended land pattern



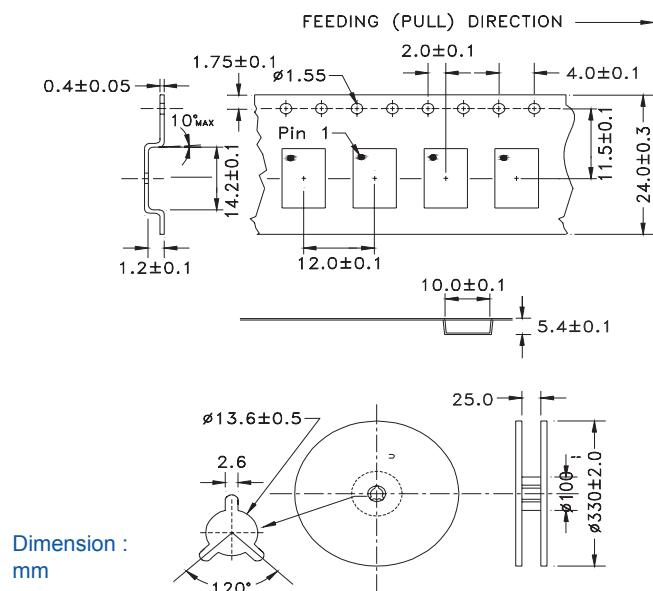
PIN	FUNCTION
1	Tristate
2	GND/Case
3	Output
4	Vdd

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

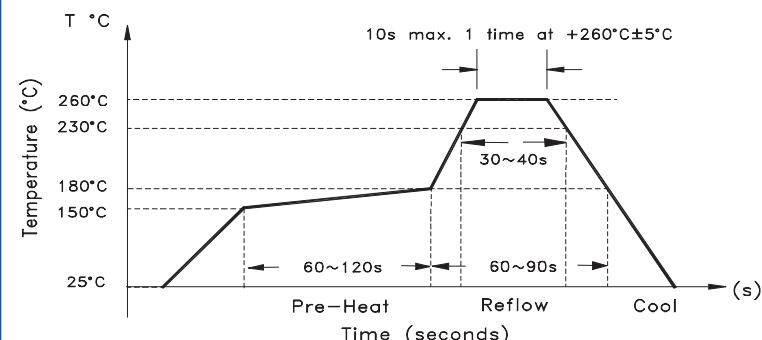
## TAPE AND REEL: T= tape and reel (1,000pcs/reel)

## REFLOW PROFILE:

### PACKING FOR ORDERS OF OVER 1000PCS (programmed at the factory)



Dimension :  
mm



**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.