PLASTIC J-LEADED PROGRAMMABLE SURFACE-MOUNT CRYSTAL CLOCK OSCILLATOR

ASMLP

14.0 x 8.95 x 4.7 mm

Pb RoHS Compliant

FEATURES:

- Wide range of frequencies using PLL Technology
- Reflow soldering capable
- Miniature plastic SMD type
- Incorporated heat-resisting packaged crystal

APPLICATIONS:

- Real time clocks
- System References

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ASMLP Series
Frequency	1.000 MHz ~ 106.250 MHz
Operating Temperature	-20°C to + 70°C (See options)
Storage Temperature	-55°C to +125°C
Frequency stability	± 100ppm max. (See options)
Supply voltage (Vdd)	3.3 Vdc ± 10%
Input Current	25mA max.
Symmetry at 1/2 VDD	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.
Start-up time	10 ms max.
Tri-state function	"1" (VIH >= 0.7*Vdd) or open: Oscillation "0" (VIL < 0.2*Vdd) : Hi Z
Disabled current OE	15 mA max.
Stand-By Current (Option - B)	20 µA max.
Jitter (Peak to Peak)	±250ps max. for F< 33MHz, ±100ps typ.
	±125ps max. for F>33MHz, ±75ps typ.
RMS One Sigma	±50ps max. for F< 33MHz, ±30ps typ.
	±30ps max. for F>33MHz, ±20ps typ.
Aging	±5ppm/year maximum

OPTIONS & PART IDENTIFICATION:

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ASMLP-Frequency - □ - □ - □ - □

Temp. Range	
F	-30°C to +70°C
N	-30°C to +85°C
L	-40°C to +85°C

Frequency Stability Over Operating Temp.	
J	± 20 ppm*
R	± 25 ppm*
K	± 30 ppm*
H	± 35 ppm*
C	± 50 ppm*

(*) Note: -20 to +70°C only

Packaging	
Blank	Bulk
T	Tape and Reel

Stand-By	
B	Stand-By Mode

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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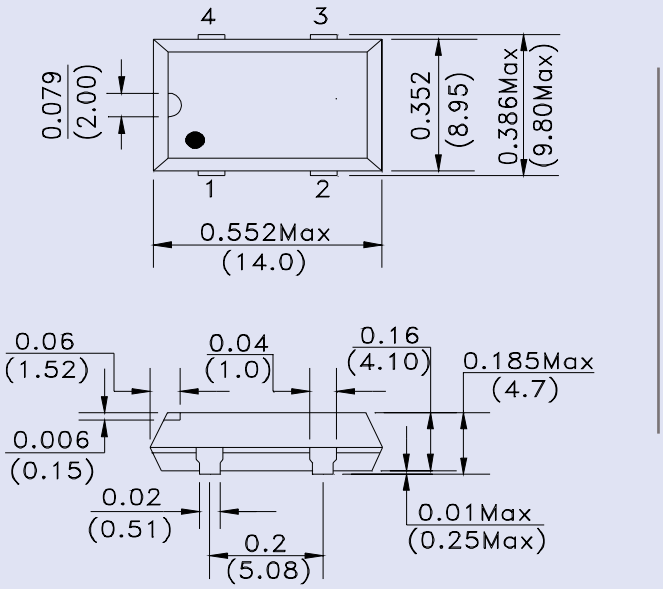
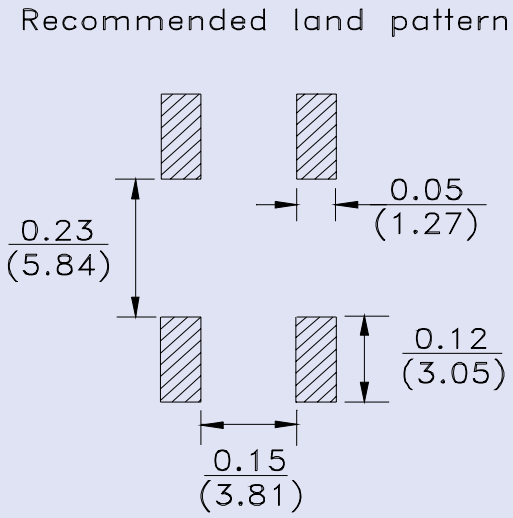
OUTLINE DRAWING:



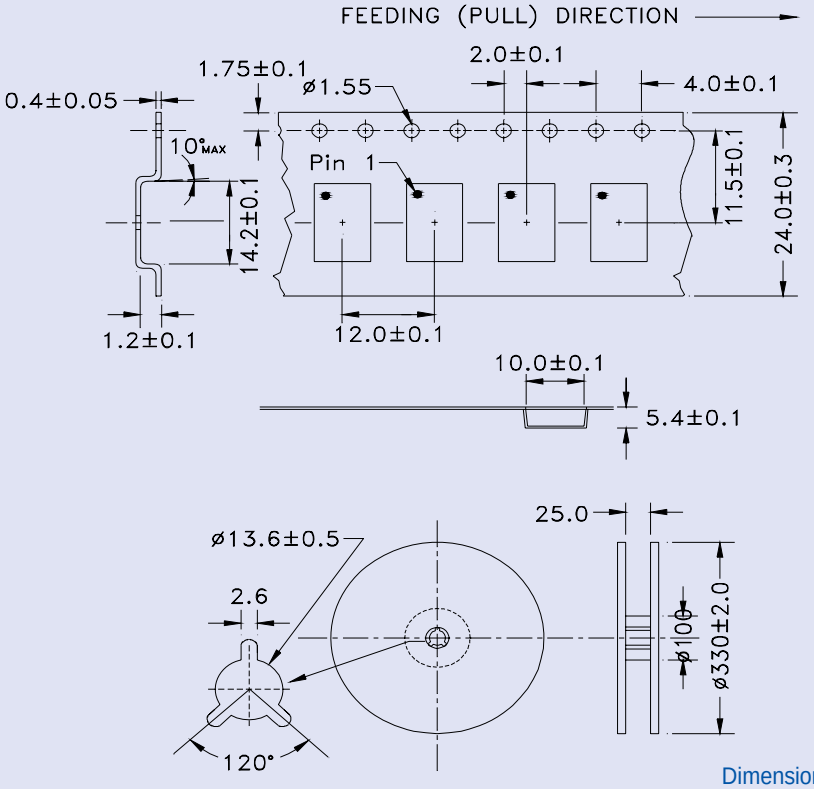
Dimensions: mm



PIN	FUNCTION
1	OE or Stand-By
2	GND/Case
3	Output
4	Vdd

Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 2 and 4.

TAPE & REEL: T = Tape and reel 1,000pcs/reel



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