

5.0V HCMOS/TTL COMPATIBLE SMD CRYSTAL CLOCK OSCILLATOR



7.0 x 5.08 x 1.8 mm

ASL Series



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 current (B option): | 10µA max. |

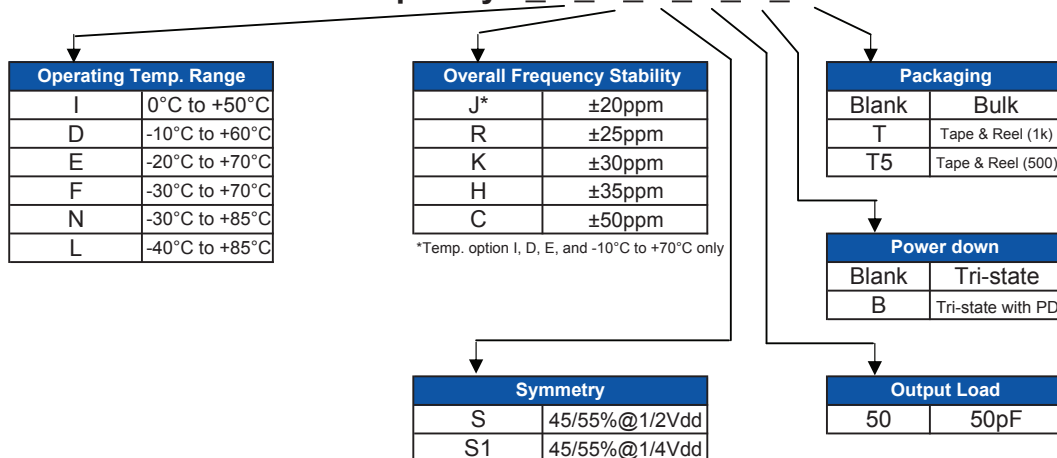
Table 1

| 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 - □ - □ - □ - □ - □ - □



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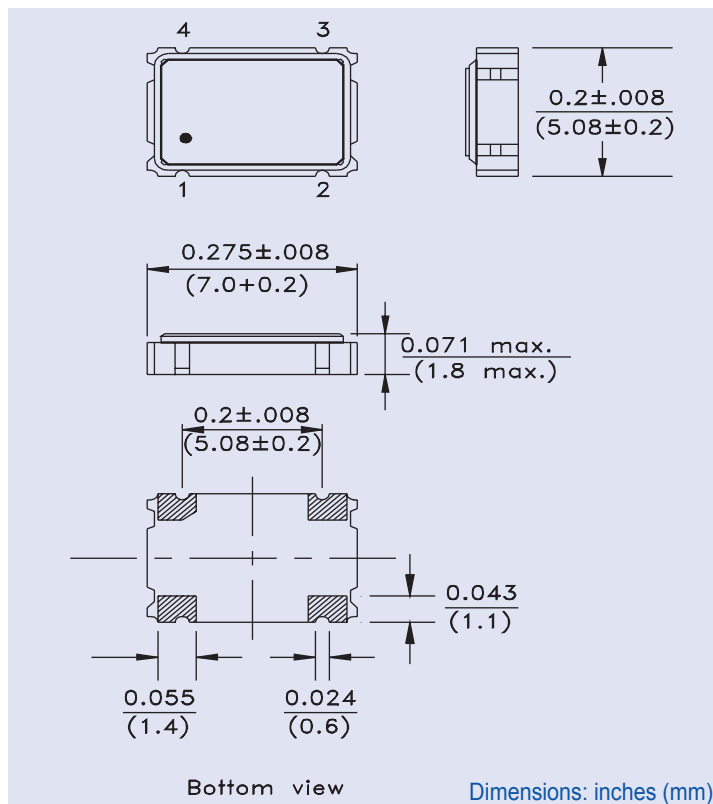
7.0 x 5.08 x 1.8 mm

ASL Series

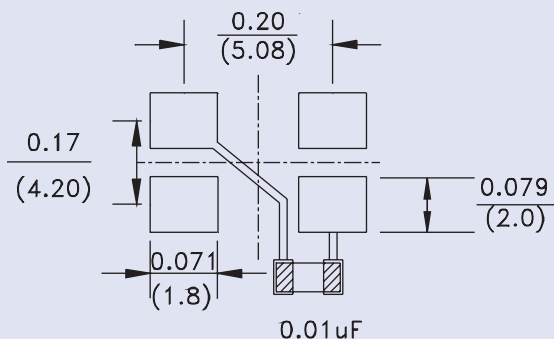


RoHS
Compliant

OUTLINE DRAWING:



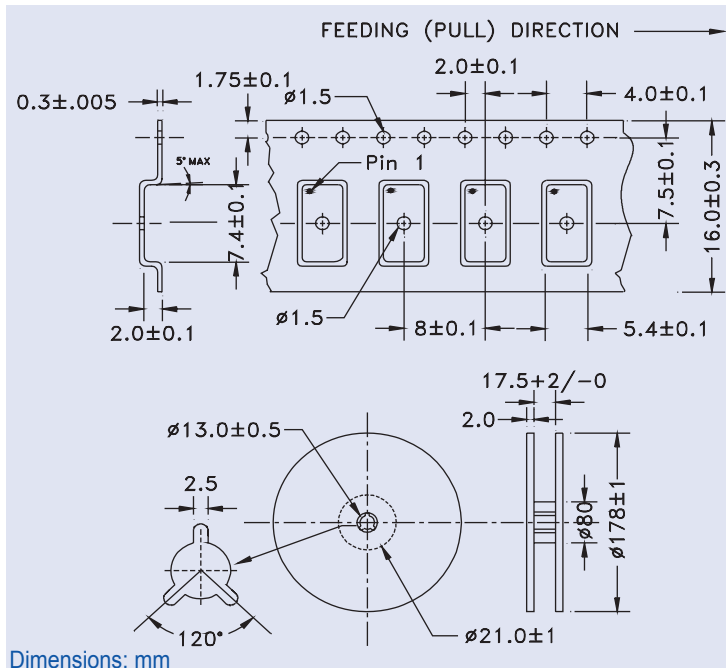
Recommended land pattern



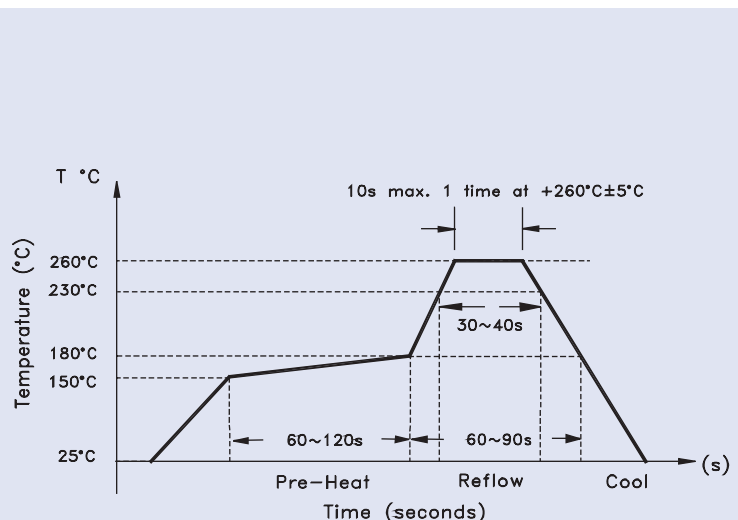
| PIN | FUNCTION |
|-----|--------------------------|
| 1 | Tri-state Enable/Disable |
| 2 | GND/Case |
| 3 | Output |
| 4 | Vdd |

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

TAPE & REEL:



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.

ABRACON IS
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CERTIFIED



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