

Ultra Miniature SMD Crystal Clock Oscillator



ASCO

1.6 x 1.2 x 0.7mm

ASCO



Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- Ultra miniature package: 1.6 x 1.2 x 0.7mm
- Tri-state function
- Suitable for high density SMT
- Suitable for RoHS compliant reflow process
- Electrical beam sealed package assures extreme accuracy and high reliability

APPLICATIONS:

- CCD clock for VTR camera
- Computers and peripherals
- Portable electronics
- Mobile communication, PDA

STANDARD SPECIFICATIONS:

| Parameters | | Minimum | Typical | Maximum | Units | Notes |
|---|-----------------|---|---------|---------|-------|---------------------|
| Frequency Range* | | 7.0 | | 80 | MHz | |
| Operating Temperature | | -10 | | +60 | °C | See options |
| Storage Temperature | | -40 | | +85 | °C | |
| Overall Frequency Stability** | | -50 | | +50 | ppm | See options |
| Supply Voltage (Vdd) | | 2.97 | 3.3 | 3.63 | V | Standard |
| | | 2.25 | 2.5 | 2.75 | | Option "1" |
| | | 1.62 | 1.8 | 1.98 | | Option "2" |
| Supply Current (I _{dd}) into 15pF Load | Vdd = 3.3 V | | 3.0 | 4.5 | mA | 1MHz ≤ F ≤ 20 MHz |
| | | | 4.2 | 6.0 | | 20 MHz < F ≤ 50 MHz |
| | | | 6.0 | 8.5 | | 50 MHz < F ≤ 80 MHz |
| | Vdd = 2.5 V | | 2.5 | 3.5 | | 1MHz ≤ F ≤ 20 MHz |
| | | | 3.0 | 4.5 | | 20 MHz < F ≤ 50 MHz |
| | | | 4.0 | 6.0 | | 50 MHz < F ≤ 80 MHz |
| | Vdd = 1.8 V | | 2.0 | 3.0 | | 1MHz ≤ F ≤ 20 MHz |
| | | | 2.5 | 3.5 | | 20 MHz < F ≤ 50 MHz |
| | | | 3.5 | 5.0 | | 50 MHz < F ≤ 80 MHz |
| Output Load | | | | 15 | pF | CMOS |
| Output Voltage | V _{OH} | 0.9*Vdd | | | V | |
| | V _{OL} | | | 0.1*Vdd | | |
| Tri-state function | | "1" (VIH ≥ 0.7*Vdd) or Open : Oscillation "0" (VIH < 0.3*Vdd) : Hi Z | | | | |
| Aging | | -3.0 | | 3.0 | ppm | @+25°C First year |
| Symmetry @1/2Vdd | | 40 | 50 | 60 | % | Standard |
| | | 45 | 50 | 55 | | Option S |
| Start-up Time | | | | 2.0 | ms | |
| Rise/Fall Time (Tr/Tf) | | | | 5.0 | ns | |

* Please contact Abracon for frequency <7MHz.

**Overall frequency stability includes initial frequency tolerance @+25°C and stability over the operating temperature.

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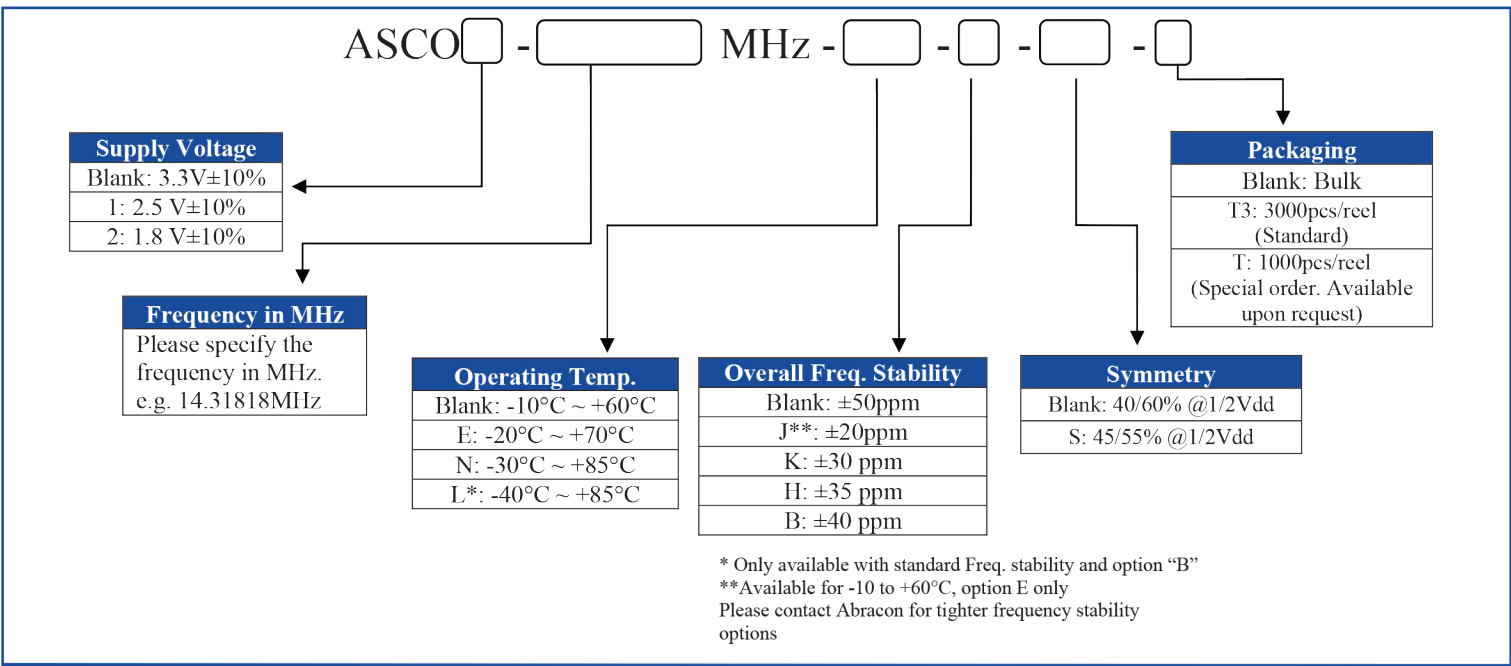


1.6 x 1.2 x 0.7mm

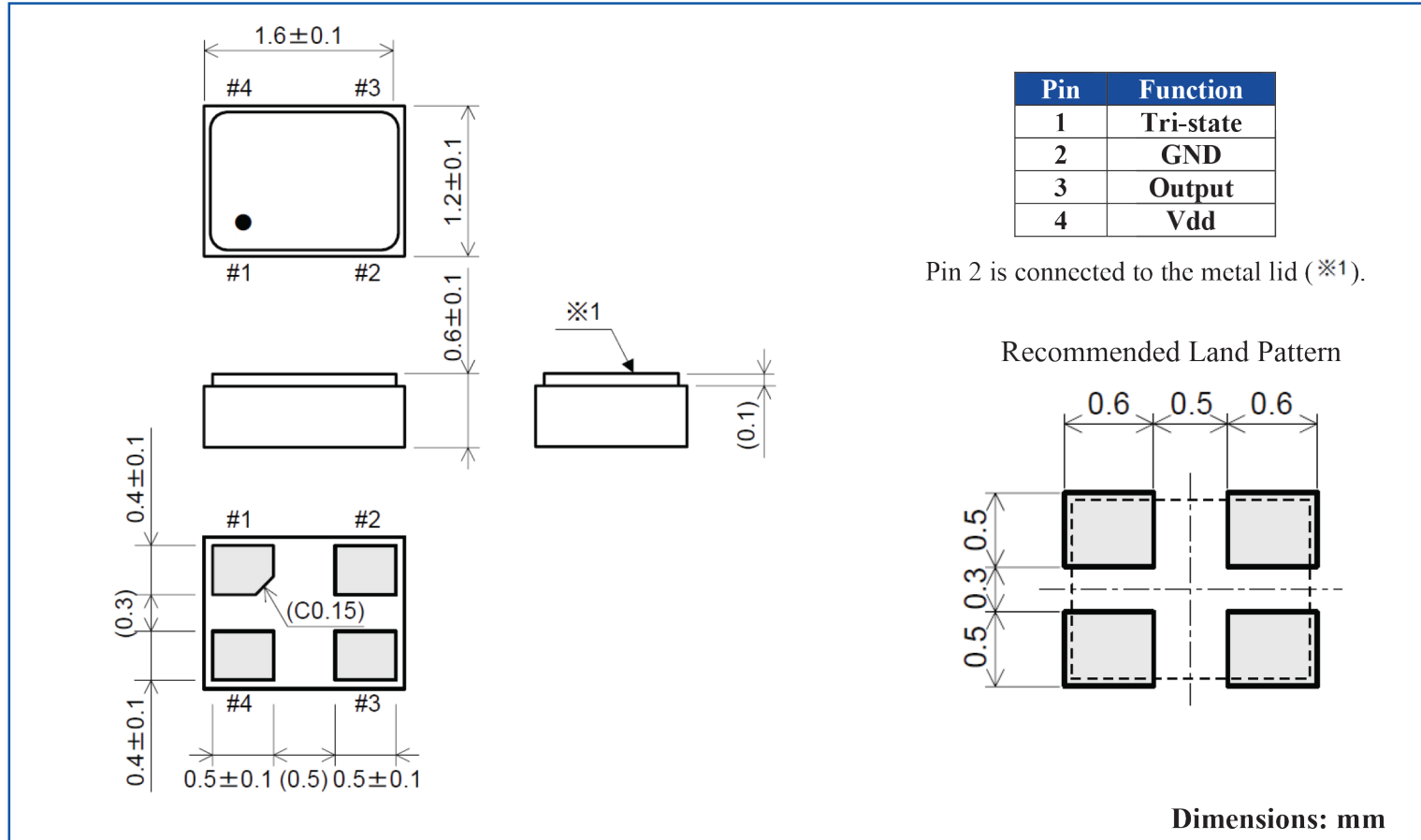
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RoHS/RoHS II compliant

PART IDENTIFICATION:



OUTLINE DRAWING:



ABRACON IS
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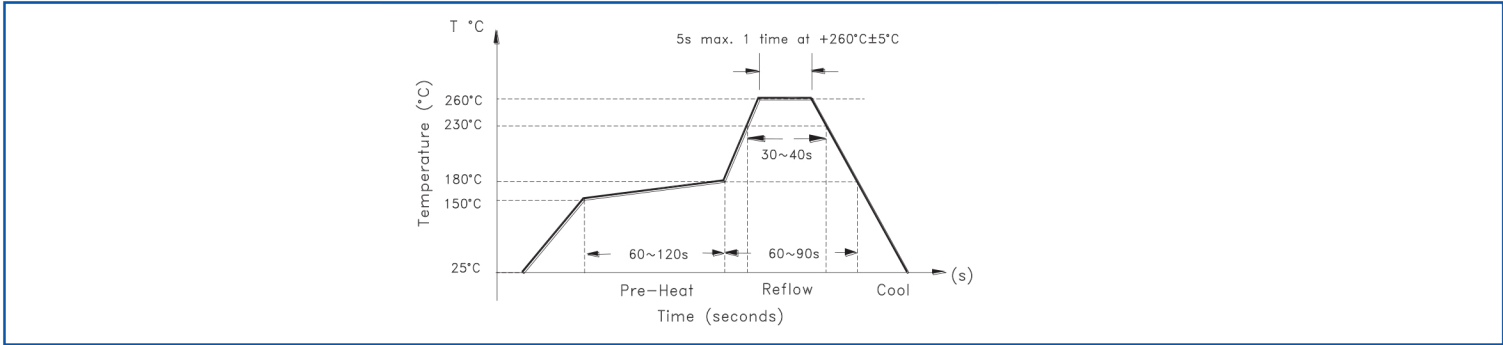


1.6 x 1.2 x 0.7mm

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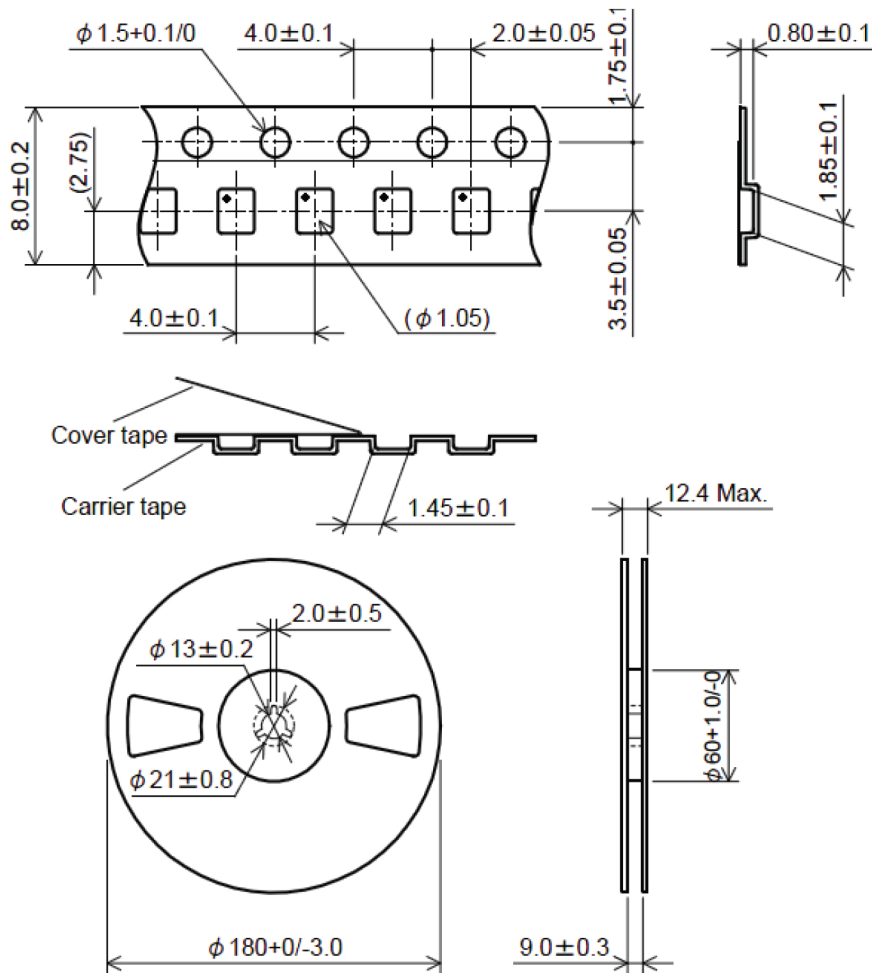
RoHS/RoHS II compliant

REFLOW PROFILE:



TAPE & REEL:

T3= 3,000pcs/reel (Standard)
T = 1,000pcs/reel (Special order. Available upon request)



Dimensions: mm

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