



GENERAL CRYSTAL SPECIFICATION : C7

Frequency Range : 6.000 000 to 80.000 000 MHz. | 40.000 000 to 160.000 000 MHz.
Operating Mode : Fundamental, AT-Cut. | 3rd Overtone, AT-Cut.

Frequency Tolerances

Calibration at + 25.0 °C (Maximum) : ± 10.0 ppm, ± 30.0 ppm, ± 50.0 ppm.
Over Temperature Range (Maximum) : ± 10.0 ppm, ± 30.0 ppm, ± 50.0 ppm.
Aging (Maximum per year at + 25.0 °C) : ± 5.0 ppm (± 3.0 ppm option).

Temperature Range

Operating : - 10 to + 60 °C (- 40 to + 85 °C, - 40 to + 125 °C options).
Storage : - 40 to + 85 °C (- 55 to + 125 °C option).

Motional Parameters

Load Capacitance (CL) : 10.0 pF to Series.

ESR (Maximum)

6.000 000 to 7.999 999 MHz	:	120 Ω	
8.000 000 to 9.999 999 MHz	:	100 Ω	
10.000 000 to 11.999 999 MHz	:	80 Ω	
12.000 000 to 15.999 999 MHz	:	60 Ω	
16.000 000 to 80.000 000 MHz	:	40 Ω	
40.000 000 to 83.999 999 MHz	:		70 Ω
84.000 000 to 150.000 000 MHz	:		60 Ω

Shunt Capacitance (C0) (Maximum) : 7.0 pF.

Drive Level (Maximum) : 300.0 μW (100.0 μW Typical, 10.0 μW Minimum).

Insulation Resistance : 500 MΩ Minimum at 100 V_{DC}.

Package Style : 7.00 x 5.00 x 1.10 mm.

Marking

Line 1 : **PDI**
Line 2 : Frequency
Line 3 : Spec. code

Notes

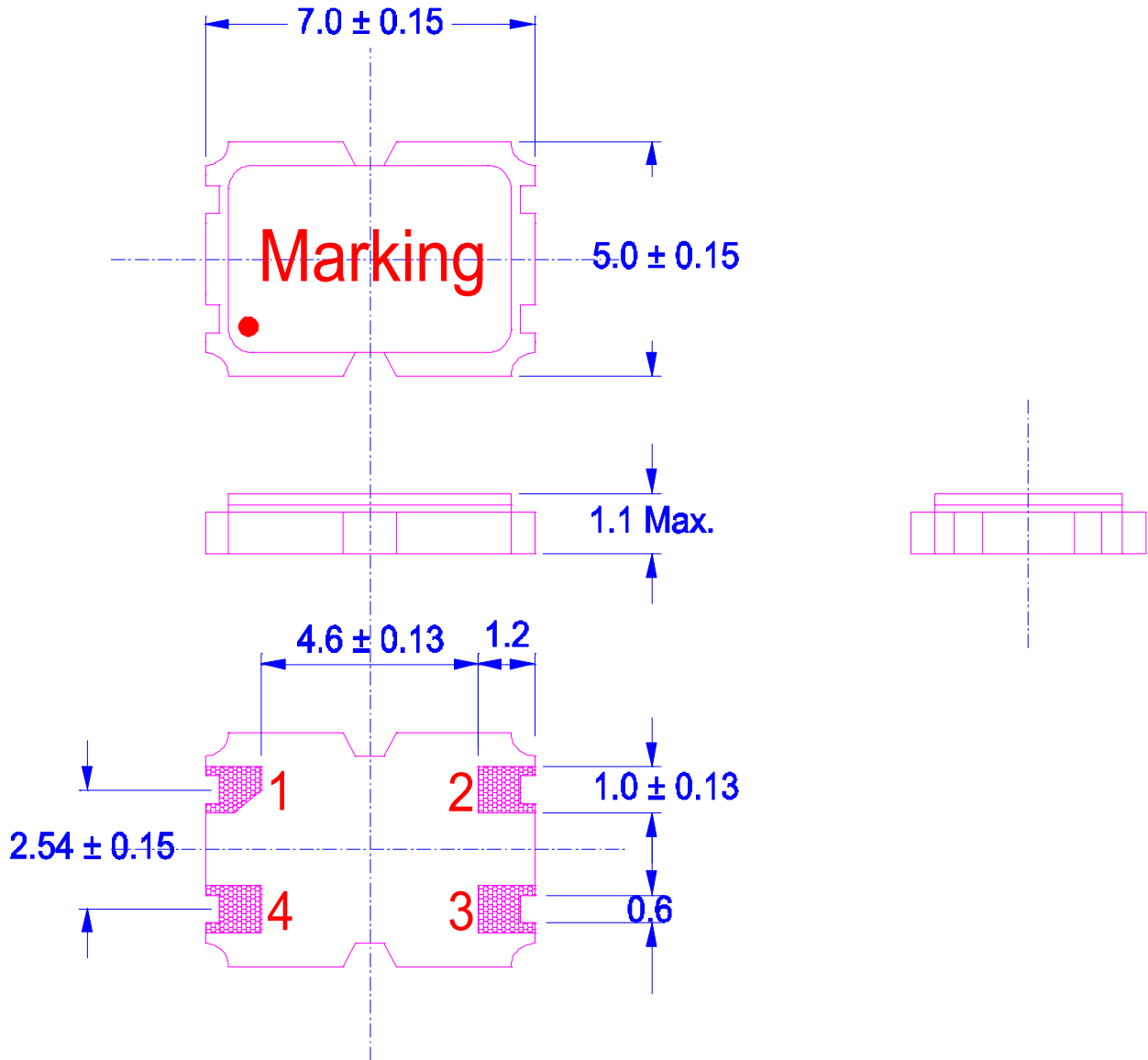
Terminals are Au.
All product is supplied RoHS compliant.
Product can be supplied on Tape and Reel, on reels of 1,000 units.
Not all Frequency / Temperature combinations are available.
Specifications subject to change without notice.



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Package Drawing



Pin Connections

- 1 Xtal
- 2 Ground / Case
- 3 Xtal
- 4 Ground / Case

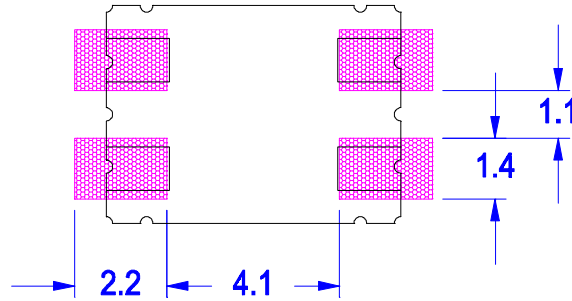
All Dimensions and Tolerances are in mm



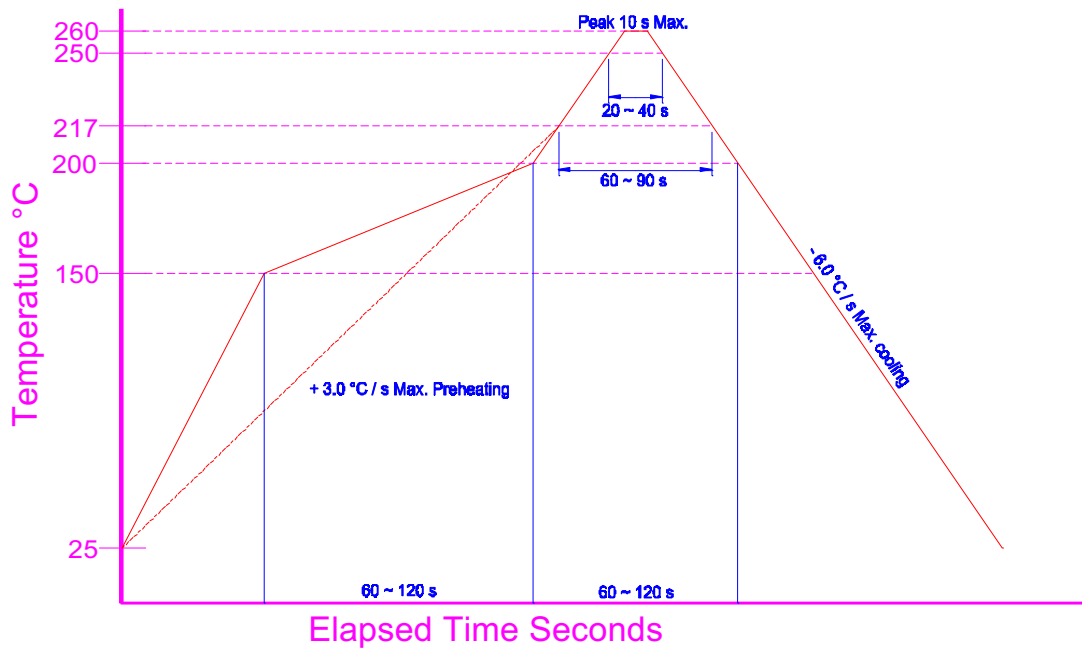
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Solder Pattern (Reference purposes only)



Reflow Solder Profile

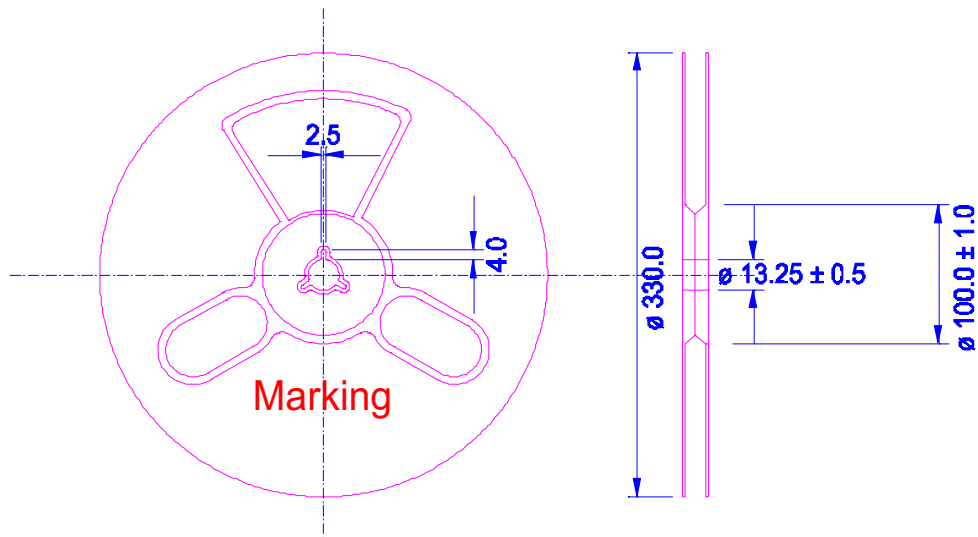
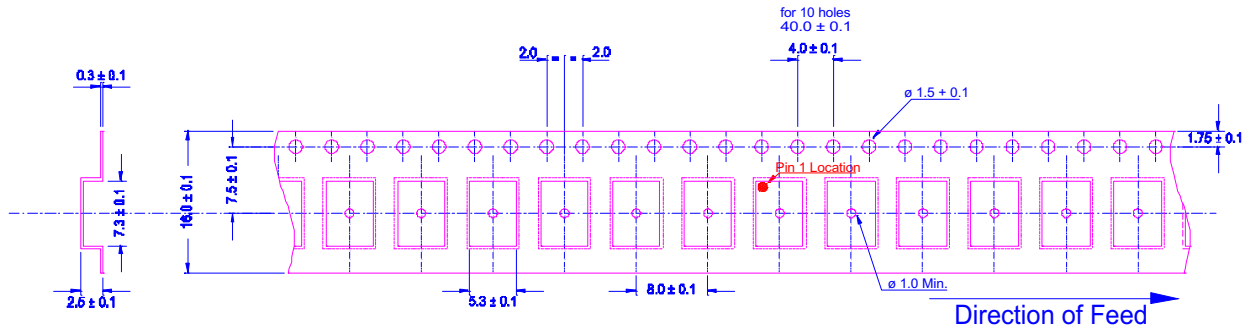




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Tape & Reel Dimensions



Empty Pockets

- Trailing end (Minimum) : 200 mm.
- Leading end (Minimum) : 400 mm.