



GENERAL CRYSTAL SPECIFICATION : CX

Frequency Range : 12.000 000 to 80.000 000 MHz (See table 1, below).
Operating Mode : See table 1, below, 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) : ± 3.0 ppm (± 5.0 ppm for first year).

Temperature Range
Operating : - 20 to + 70 °C (- 40 to + 85 °C, - 40 to + 125 °C options).
Storage : - 40 to + 85 °C (- 55 to + 125 °C option).

Frequency Range MHz	Operating Mode	Load Capacitance (CL)	ESR Ω (Maximum)	Shunt Capacitance (C0) pF (Maximum)	Drive Level μW (Typical)	Insulation Resistance
12.000 000 to 15.999 999	Fundamental	32.0 pF to Series	120	7.0	10.0	500 MΩ Minimum at 100 V _{DC}
16.000 000 to 19.999 999			100			
20.000 000 to 29.999 999			80			
30.000 000 to 80.000 000			50			

Table 1 - Frequency Range vs Operating Mode vs Motional Parameters.

Package Style : 2.50 x 2.00 x 0.55 mm.

Marking
Line 1 : **PDI**
Line 2 : Spec. code

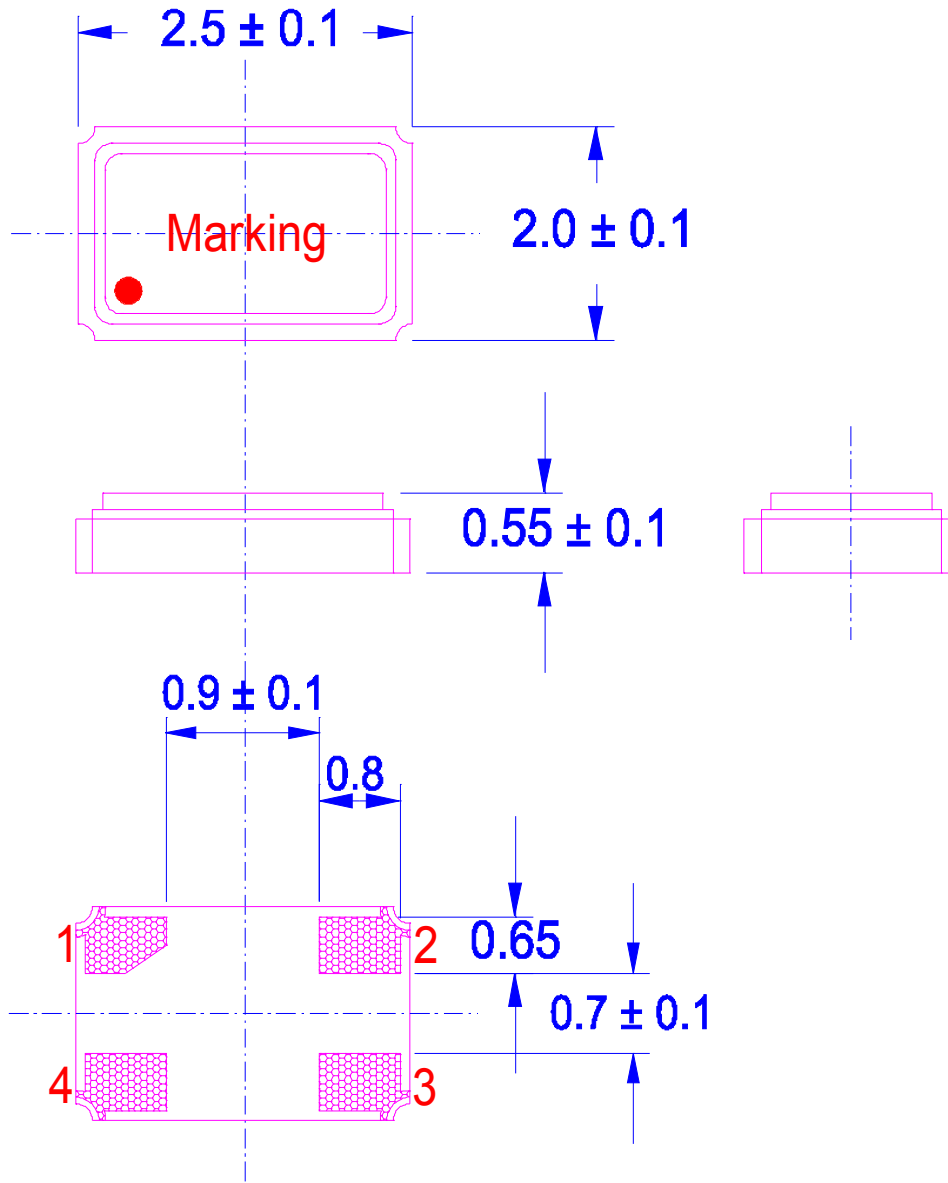
Notes
Terminals are Au.
Other options are available, please consult factory.
All product is supplied RoHS and REACH compliant.
Product can be supplied on Tape and Reel, on reels of 1,000 units.
Not all Frequency / Temperature combinations are available.
Specifications subject to change without notice, last updated 16th May 2011.



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Package Drawing



Pin Connections

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

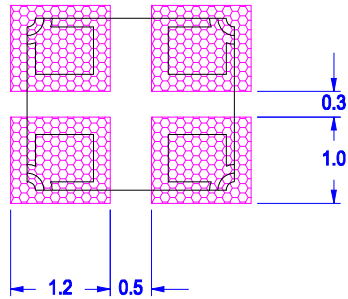
All Dimensions and Tolerances are in mm



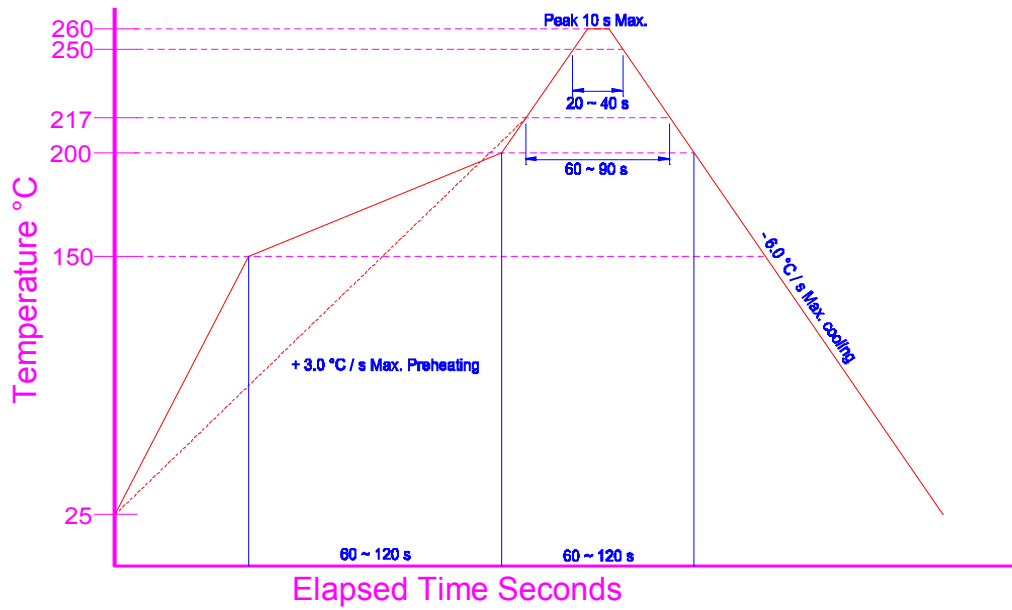
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Solder Pattern (Reference purposes only)



Reflow Solder Profile

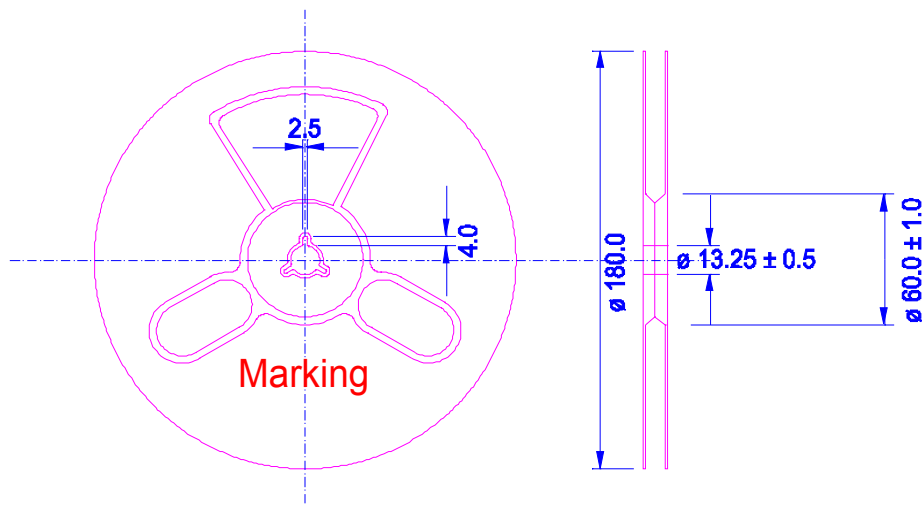
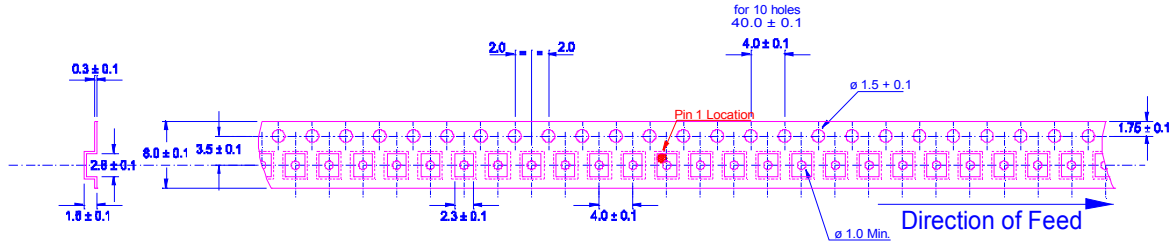




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Tape & Reel Dimensions



There may be small variations in pocket size and material thickness from reel to reel.

Empty Pockets

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