

## SPECIFICATION FOR SMT CRYSTAL MtronPTI P/N M1325S091

### Electrical Specifications:

| Parameter             | Symbol         | Min.                 | Typ.      | Max. | Units | Conditions             |
|-----------------------|----------------|----------------------|-----------|------|-------|------------------------|
| Mode of Oscillation   |                | Fundamental (AT-Cut) |           |      |       |                        |
| Frequency             | F <sub>0</sub> |                      | 38.000000 |      | MHz   |                        |
| Frequency Tolerance   | F/F            | -50                  |           | +50  | ppm   | @ 25°C                 |
| Frequency Stability   | ΔF/F           | -100                 |           | +100 | ppm   | Over temperature range |
| Aging                 |                | -5                   |           | +5   | ppm   | Per year               |
| Operating Temperature | T <sub>A</sub> | -40                  |           | +85  | °C    |                        |
| Storage Temperature   |                | -55                  |           | +125 | °C    |                        |
| Load Capacitance      | C <sub>L</sub> |                      | 20        |      | pF    |                        |
| Shunt Capacitance     | C <sub>0</sub> |                      |           | 7    | pF    |                        |
| ESR                   |                |                      |           | 50   | Ω     |                        |
| Drive Level           | D <sub>L</sub> | 2                    | 100       | 300  | μW    |                        |

### Environmental Conditions:

|                           |   |
|---------------------------|---|
| Mechanical Shock          | Per MIL-STD-202, Method 213, Condition C                              |
| Vibration                 | Per MIL-STD-202, Method 201 & 204                                     |
| Hermeticity               | Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm cc/s of Helium) |
| Solderability             | Per EIAJ-STD-002  |
| Max. Soldering Conditions | See Figure 1  |
| Package                   | 4-pad 3.2 X 5.0 X 0.8 mm leadless ceramic. RoHS compliant.            |



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### Mechanical and Marking Information:

| Part Marking |            |
|--------------|------------|
| Line 1       | 38M000     |
| Line 2       | M R y ww v |

| Legend |                   |
|--------|-------------------|
| M      | MtronPTI          |
| R      | M1325 Series      |
| y      | Year (Last Digit) |
| ww     | Work Week         |
| v      | Factory code      |

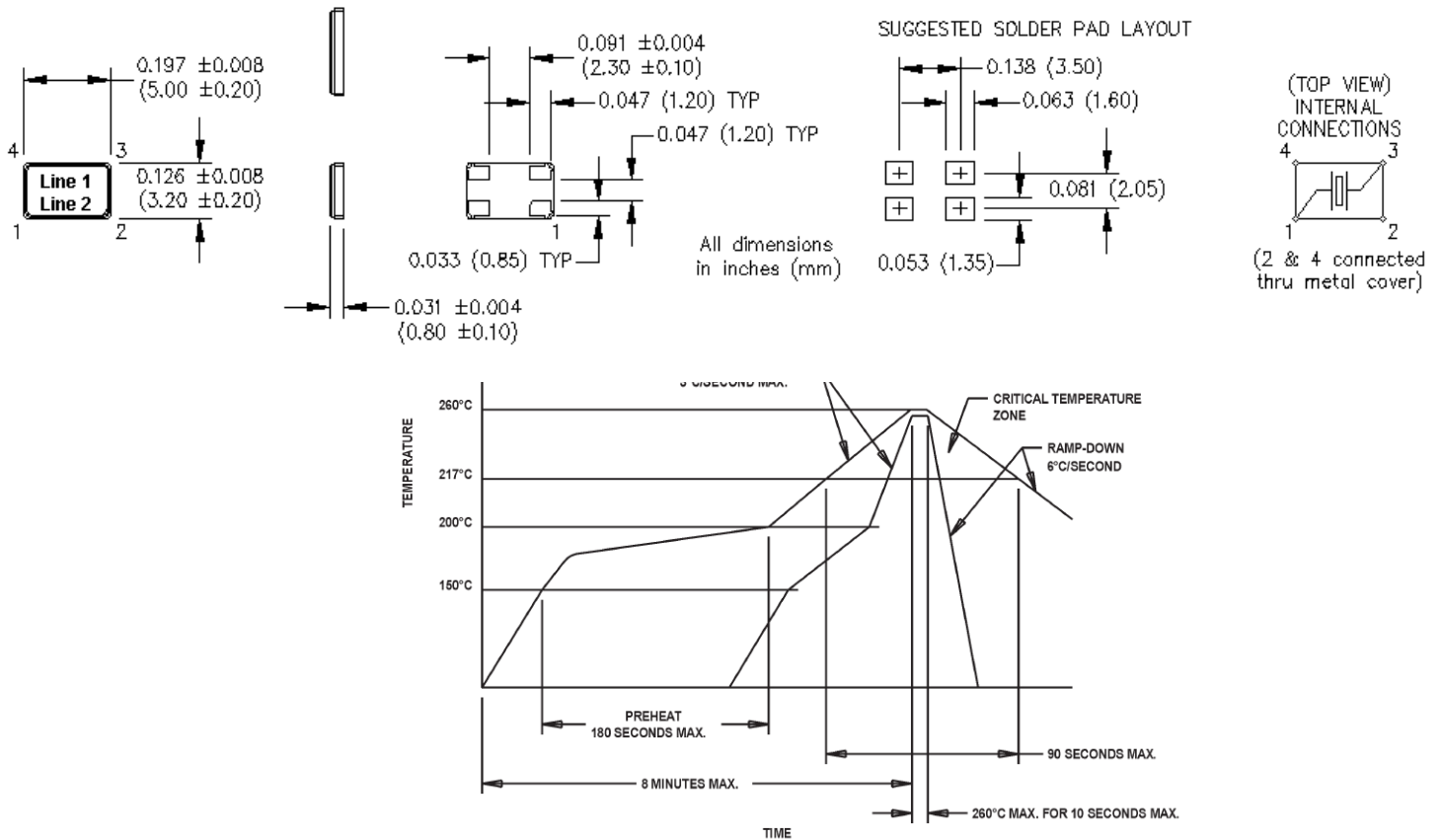


Figure 1

### DATA SHEET REVISION TABLE:

| Date     | Rev. | Author | Details of Revision                 |
|----------|------|--------|-------------------------------------|
| 4/6/10   | 0    | WNJ    | Original release.                   |
| 10/26/10 | A    | WNJ    | Updated Marking Information/Legend. |