

Helping Customers Innovate, Improve & Grow

| Table 1. Electrical Performance                                 |            |                              |     |           |       |
|---|------------|------------------------------|-----|-----------|-------|
| Parameter   | Symbol     | Min.                         | Typ | Max       | Units |
| Nominal Frequency   | $F_{NOM}$  | 24.000                       |     | 54.000    | MHz   |
| Mode  |            | Fundamental, AT - Cut        |     |           |       |
| Operating Temperature Range                                     | $T_{OP}$   | 0/70, -10/70, -20/70, -40/85 |     |           | °C    |
| Stability Over $T_{OP}^1$                                       | $F_{STAB}$ | ±15                          |     | ±100      | ppm   |
| Frequency Tolerance <sup>2</sup>                                | $F_{TOL}$  |                              | ±15 |           | ppm   |
| Load Capacitance  | $C_L$      | 6                            |     | 32        | pF    |
| Shunt Capacitance   | $C_o$      |                              |     | 5         | pF    |
| Drive Level   |            |                              | 10  | 100       | uW    |
| Aging / 1st year (at 25 °C)                                     | $F_{AGE}$  |                              |     | ±5        | ppm   |
| Insulation Resistance   |            | 500                          |     |           | MOhm  |
| Storage Temperature   | $T_{STO}$  | -40                          |     | 90        | °C    |
| Equivalent Series Resistance                                    |            |                              |     |           |       |
| Crystal Frequency<br>24.000MHz-37.399MHz<br>37.400MHz-54.000MHz | ESR        |                              |     | 100<br>80 | Ohm   |

Notes:

1. Referenced to the Frequency at 25 °C.
2. Frequency measured at 25 °C ± 3 °C.

Product is compliant to RoHS directive and fully compatible with lead free assembly.



## Package Drawing

