## FEATURES:

- High reliability, Low cost.
- Tight stability and extended temperature.


## APPLICATIONS:

- Blue-tooth and wireless applications.
- Computers, Modems, Communications.
- Low profile.(2.0mm max. ABL3)
- Proven resistance welded metal package.
- Automotive and industrial.
- Hi-precision TCXO and clock applications.

| Frequency Range | $3.579545 \mathrm{MHz}-70.00 \mathrm{MHz}$ |
| :---: | :---: |
| Operation Mode | $3.579545 \mathrm{MHz} \leq \mathrm{F} \leq 24.0 \mathrm{MHz}$ (Fundamental) $24.0 \mathrm{MHz}<\mathrm{F} \leq 50.00 \mathrm{MHz}$ (Fund. AT or BT) $24.0 \mathrm{MHz}<\mathrm{F} \leq 70 \mathrm{MHz}$ (Third- Overtone) |
| Operating Temperature | $0^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ (See Options) |
| Storage Temperature | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| Frequency Tolerance @ $25^{\circ} \mathrm{C}$ | $\pm 50 \mathrm{ppm}$ max. (See Options) |
| Frequency stability over temp. | $\pm 50 \mathrm{ppm}$ max. (See Options)* |
| Equivalent Series Resistance (ESR) <br> Fundamental | $180 \Omega$ max. for $3.5 \mathrm{MHz} \leq \mathrm{F}<5.0 \mathrm{MHz}$ |
|  | $120 \Omega$ max. for $5.0 \mathrm{MHz} \leq \mathrm{F}<6.0 \mathrm{MHz}$ |
|  | $100 \Omega$ max. for $6.0 \mathrm{MHz} \leq \mathrm{F}<8.0 \mathrm{MHz}$ |
|  | $80 \Omega$ max. for $8.0 \mathrm{MHz} \leq \mathrm{F}<9.0 \mathrm{MHz}$ |
|  | $60 \Omega$ max. for $9.0 \mathrm{MHz} \leq \mathrm{F}<10.0 \mathrm{MHz}$ |
|  | $50 \Omega$ max. for $10.0 \mathrm{MHz} \leq \mathrm{F}<16.0 \mathrm{MHz}$ |
|  | $40 \Omega$ max. for $16.0 \mathrm{MHz} \leq \mathrm{F} \leq 50.0 \mathrm{MHz}$ |
|  | $100 \Omega$ max. for $24.0 \mathrm{MHz}<\mathrm{F}<32.0 \mathrm{MHz}$ |
| Third Overtone | $80 \Omega$ max. for $32.0 \mathrm{MHz} \leq \mathrm{F} \leq 70.0 \mathrm{MHz}$ |
| Shunt Capacitance $\mathrm{C}_{0}$ | 7 pF max. |
| Load Capacitance CL | 18pF (See Options) |
| Drive Level | 1 mW max., $100 \mu \mathrm{~W}$ correlation |
| Aging @ $25^{\circ} \mathrm{C}$ per Year | $\pm 5 \mathrm{ppm}$ max. |
| Insulation Resistance | $500 \mathrm{M} \Omega$ min. at $100 \mathrm{Vdc} \pm 15 \mathrm{~V}$ |

Environmental, and mechanical specifications, see appendix C. Group 1. Tape and Reel, see appendix H.(1,000pcs./reel). Reflow profile, see appendix E. Marking, see appendix G. Recommended handling, see appendix F. Application notes, see appendix A. Value added, see appendix D.


Dimensions: Inches (mm)

## ORDERNG OPTIONS

ABLX - Frequency - CL - ESR - Temperature - Tolerance - Stability - Mode - Value Added - Packaging


Load cap.in pF or $S$ for Series


| -I | Insulator tab |
| :--- | :--- |
| -V | Vinyl sleeve |
| -L2 | Middle third leads |
| -QXX (trimmed leads) |  |

$-F$ for Fundamental AT>24MHz - FB for Fundamental BT> 24 MHz

| $-T$ | for Tape and Reel |
| :--- | :--- |
| $-P$ | for Foam |
| $-T Y$ | for Tray Packing |

** Please call for availability

* BT cut $\pm 100$ ppm max. $-10^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$

NOTE: Left blank if standard • All specifications and markings subject to change without notice
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