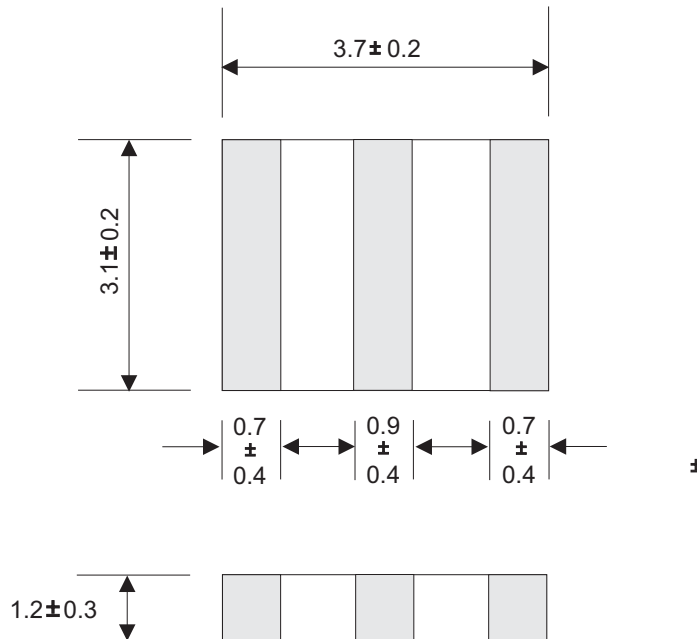
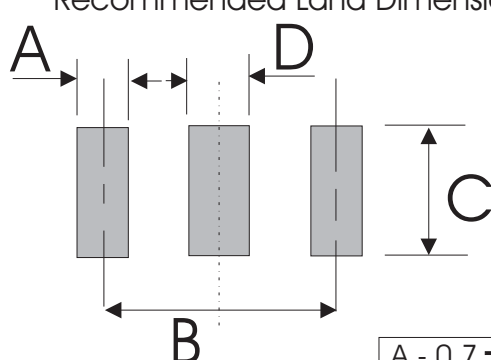




## ZTTCV SMD Ceramic Resonator



|                       |             |                    |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
|-----------------------|-------------|--------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---|-----------|---|-----------|---|-----------|---|-----------|
| Product Type          |             | ZTTCV              |            | All Dimensions in mm                                                                                                                                                                                                                                                                            |                                      |   |           |   |           |   |           |   |           |
| Frequency             |             | 16.000 - 60.000MHz |            | <div>Recommended Land Dimensions</div>  <table><tr><td>A</td><td>0.7 ± 0.2</td></tr><tr><td>B</td><td>3.0 ± 0.2</td></tr><tr><td>C</td><td>4.1 ± 0.2</td></tr><tr><td>D</td><td>1.0 ± 0.2</td></tr></table> |                                      | A | 0.7 ± 0.2 | B | 3.0 ± 0.2 | C | 4.1 ± 0.2 | D | 1.0 ± 0.2 |
| A                     | 0.7 ± 0.2   |                    |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| B                     | 3.0 ± 0.2   |                    |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| C                     | 4.1 ± 0.2   |                    |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| D                     | 1.0 ± 0.2   |                    |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| Frequency Accuracy    |             | + - 0.5% @ 25Deg C |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| Temperature Stability |             | + - 0.3%           |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| Temperature Range     |             | -20 to +80 Deg C   |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| Aging over 10 Years   |             | + - 0.3%           |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| Resonant Impedance    |             | 30 Ohms            |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
| Amdt                  | Change Note | Date               | Originator | Issue No                                                                                                                                                                                                                                                                                        | AEL Crystals Ltd<br>Specification No |   |           |   |           |   |           |   |           |
|                       |             |                    |            | 1                                                                                                                                                                                                                                                                                               |                                      |   |           |   |           |   |           |   |           |
|                       |             |                    |            | Dated                                                                                                                                                                                                                                                                                           |                                      |   |           |   |           |   |           |   |           |
|                       |             |                    |            | 08.11.01                                                                                                                                                                                                                                                                                        |                                      |   |           |   |           |   |           |   |           |
|                       |             |                    |            |                                                                                                                                                                                                                                                                                                 |                                      |   |           |   |           |   |           |   |           |
|                       |             |                    |            | ZTTCV Series                                                                                                                                                                                                                                                                                    |                                      |   |           |   |           |   |           |   |           |