

# CSX-750A series

(2,000pcs/reel)



## ■ FEATURES:

- Precision PLL technology enables up to 140MHz high frequency output.
- Extremely low jitter.
- Ultra-miniature low profile SMT package.
- Ceramic leadless chip carrier with seam-welded metal lid.
- Low power CMOS IC.
- Supply voltage 5.0V and 3.3V.
- Output enable or Stand-by function.
- Reflow soldering.
- Tape and reel packaging.

## ■ APPLICATIONS:

- Can be used for a wide range of applications including use in communication equipment, AV equipment, OA equipment and measuring instruments.

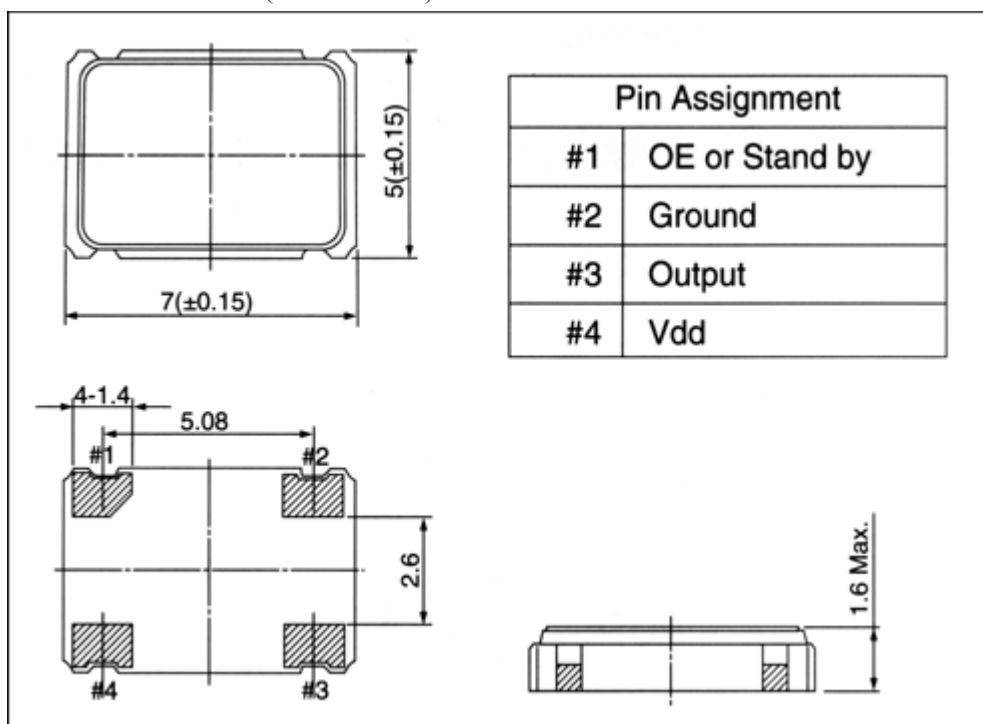
## ■ STANDARD SPECIFICATIONS

| Item                        | OE                              | CSX-750AC(*)                                                      | CSX-750AB(*)                                             |
|-----------------------------|---------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|
|                             | STAND-BY                        | CSX-750AD(*)                                                      | CSX-750AJ(*)                                             |
| Frequency range             |                                 | 40.0000MHz to 140.0000MHz                                         | 40.0000MHz to 140.0000MHz<br>(40.0000MHz to 140.0000MHz) |
| Frequency stability (*)     |                                 | C: ±100ppm B: ±50ppm (-20°C to +70°C) F: ±100ppm (-40°C to +85°C) |                                                          |
| Operating temperature range |                                 | -20°C to +70°C<br>(-40°C to +85°C)                                |                                                          |
| Storage temperature range   |                                 | -55°C to +125°C                                                   |                                                          |
| Supply voltage              |                                 | V <sub>DD</sub> :5.0V±0.5V                                        | V <sub>DD</sub> :3.3V±0.3V(3.0V±0.3V)                    |
| Supply current              |                                 | 50mA Max.                                                         | 30mA Max.                                                |
| Duty                        | TTL level (1.4V)                | 40% to 60%                                                        | —                                                        |
|                             | CMOS level (V <sub>DD</sub> /2) | 45% to 55%                                                        | 45% to 55%                                               |
| Output voltage              | V <sub>OH</sub>                 | V <sub>DD</sub> -0.5V Min                                         | V <sub>DD</sub> -0.4V Min                                |
|                             | V <sub>OL</sub>                 | 0.5V Max                                                          | 0.4V Max                                                 |
| Output load                 | TTL                             | 10TTL Max.                                                        | —                                                        |
| Output load                 | CMOS                            | 30pF Max.                                                         | 15pF Max.                                                |
| Rise & Fall time            | TTL                             | tr, tf: 2.5nsec Max.                                              | —                                                        |
|                             | CMOS                            |                                                                   | tr, tf: 2.5nsec Max.                                     |
| Start up time               |                                 | 4msec Max.                                                        | 4msec Max.                                               |
| Input (OE) voltage          |                                 | V <sub>IH</sub> : 2.0V Min.                                       | V <sub>IH</sub> : 2.0V <sub>DD</sub> Min.                |
|                             |                                 | V <sub>IL</sub> : 0.8V Max.                                       | V <sub>IL</sub> : 0.8V <sub>DD</sub> Max.                |

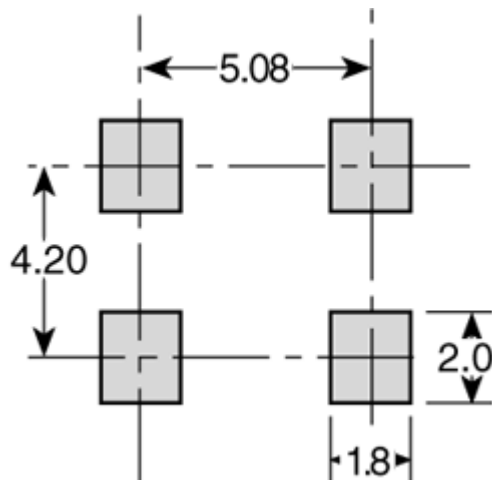
|                                         |                                                                       |           |
|-----------------------------------------|-----------------------------------------------------------------------|-----------|
| Output Disable current<br>AC AB         | 15mA Max.                                                             | 10mA Max. |
| Stand-by current AD AJ                  | 20uA Max.                                                             | 15uA Max. |
| Absolute Clock Period<br>Jitter, 125MHz | $\pm 70\text{ps}$ TYP.                                                |           |
| 1 Sigma Clock Period<br>Jitter, 125MHz  | 25ps TYP.                                                             |           |
| Cycle to Cycle Jitter,<br>125MHz        | $\pm 70\text{ps}$ TYP.                                                |           |
| Shock resistance                        | $\pm 20\text{ppm}$ MAX. (75cm height drop on hardwood board 3 times.) |           |

NOTE: Please contact us for availability of TTL tight-duty and operating temperature range (-40°C to +85°C).

■ **DIMENSIONS: (UNIT=mm)**



■ **RECOMENDED SOLDERING PATTERN: (UNIT=mm)**



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