

| ECS Part Number      | Frequency |
|----------------------|-----------|
| ECS-071.505-CDX-0370 | * 7.1505  |
| ECS-098.438-CDX-0371 | * 9.8438  |
| ECS-130.625-CDX-0373 | * 13.0625 |
| ECS-135.600-CDX-0374 | * 13.56   |
| ECS-203.563-CDX-0375 | 20.3563   |
| ECS-226.278-CDX-0376 | 22.6278   |
| ECS-232.643-CDX-0377 | 23.2643   |
| ECS-235.122-CDX-0378 | 23.5122   |
| ECS-252.235-CDX-0379 | 25.2235   |
| ECS-254.563-CDX-0380 | 25.4563   |
| ECS-264.513-CDX-0381 | 26.4513   |
| ECS-265.971-CDX-0382 | 26.5971   |
| ECS-271.344-CDX-0383 | * 27.1344 |
| ECS-274.688-CDX-0384 | 27.4688   |
| ECS-282.594-CDX-0385 | 28.2594   |
| ECS-285.938-CDX-0386 | * 28.5938 |



### Electrical Characteristics

| Parameters                                     | Value         |
|------------------------------------------------|---------------|
| Frequency Tolerance @ +25°C                    | ± 20 PPM Max. |
| Temperature Stability (-10° to +70°C)          | ± 30 PPM Max. |
| Equivalent Series Resistance (7 to 12.999 MHz) | 40 Ohms Max.  |
| Equivalent Series Resistance (13 to 30 MHz)    | 30 Ohms Max.  |
| Load Capacitance                               | 12 pF         |
| Shunt Capacitance                              | 7 pF Max.     |
| Drive Level                                    | 500 µW Max.   |
| Aging (First Year @ +25°C)                     | ± 5 PPM Max.  |
| * Spurious response (fo to Fo +200 KHz)        | -20 dB Min.   |
| Operating Temperature                          | -10 to +70 °C |
| Storage Temperature                            | -30 to +85 °C |

Spur spec applies only to those frequencies with an \*

| SIGNATURES              | DATE       |
|-------------------------|------------|
| DRN <b>DK</b>           | 10/21/2005 |
| CHK <b>BL</b>           | 10/21/2005 |
| APP <b>BS</b>           | 10/21/2005 |
|                         |            |
| <b>Dimensions in mm</b> |            |

### REVISIONS

| REV | DESCRIPTION | DATE | APPROVED |
|-----|-------------|------|----------|
|     |             |      |          |

### Package Dimensions (mm)

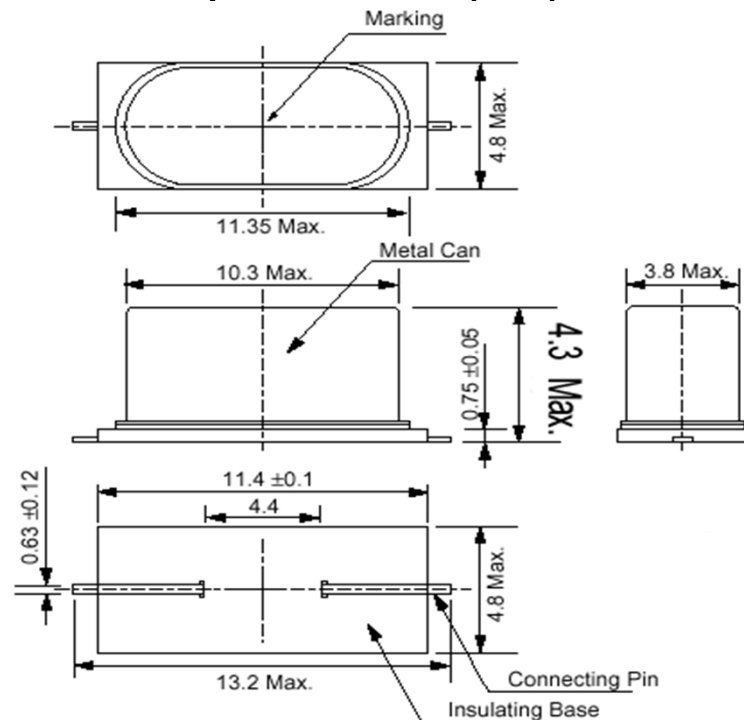


Figure 1) Top, Side, Bottom and End views

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|                                                                  |                                |              |
|------------------------------------------------------------------|--------------------------------|--------------|
| TITLE <b>CSM-7 SMD Crystal for TX/RX Chipset, RoHS Compliant</b> |                                |              |
| SIZE <b>A</b>                                                    | DWG NO <b>ECS-CDX-0370-386</b> | REV <b>-</b> |
| CAGE CODE: 1G8B7                                                 |                                | SHEET 1 OF 1 |