

The ECS-CR2-A Chip Type SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

[Request a Sample](#)

### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



| Part Number *   | Frequency Range (MHz) | Frequency Accuracy @25°C (%) | Frequency Stability -20 ~ +80°C (%) | Aging for Ten Years (%) | ESR (Ω) MAX | Insulation Resistance @ 10VDC |
|-----------------|-----------------------|------------------------------|-------------------------------------|-------------------------|-------------|-------------------------------|
| ECS-CR2-□□.□□-A | 8.00 ~ 13.00          | ±0.5                         | ±0.3                                | ±0.3                    | 40          | 100 M Ω Min.                  |
| ECS-CR2-□□.□□-A | 13.10 ~ 40.00         | ±0.5                         | ±0.3                                | ±0.3                    | 40          | 100 M Ω Min.                  |

Complete part number to include frequency

- Chip Type SMD package
- RoHS Compliant (Note 7 Exemption)
- Tape and Reel Packaging

### Part Numbering Guide: ECS-CR2-20.00-A-TR

| ECS | - | Series                                  | - | Frequency         | - | Version           | - | Packaging                   |
|-----|---|-----------------------------------------|---|-------------------|---|-------------------|---|-----------------------------|
| ECS |   | CR2 = 8 ~ 13 MHz<br>CR2 = 13.1 ~ 40 MHz |   | 20.00 = 20.00 MHz |   | A = 2 Pad Version |   | TR = Tape & Reel<br>1K/Reel |

### Package Dimensions (mm)

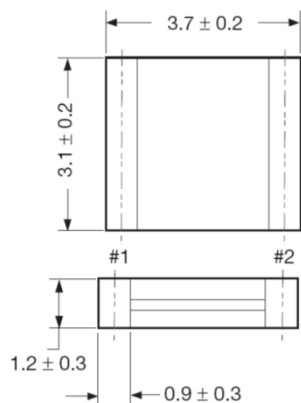


Figure 1) Top and Side Views

| Pin Connections |        |
|-----------------|--------|
| #1              | In/Out |
| #2              | Out/In |

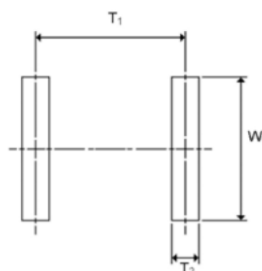


Figure 2) Land Pattern

| Dimensions (mm) |           |           |
|-----------------|-----------|-----------|
| T1              | T2        | W1        |
| 3.0 ± 0.2       | 0.7 ± 0.2 | 4.1 ± 0.2 |