

The ECS-CTA Series SMD ceramic resonator is a low cost frequency control solution when absolute frequency accuracy is not important.

Request a Sample

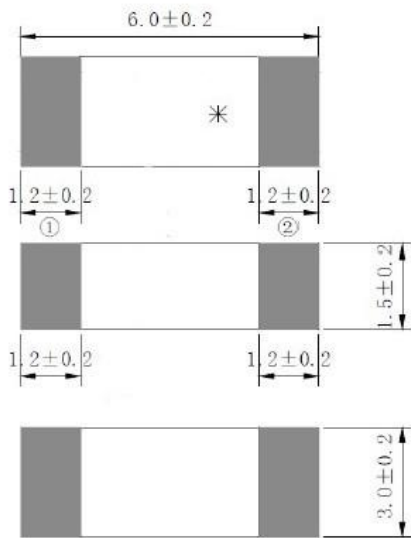


- 6.0 x 3.0 mm package
- Industry Standard footprint
- Extended Temp. Range

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | ECS-CTA | | | UNITS |
|-----------------------|-------------------------------|---------|-----|-----------|------------|
| | | MIN | TYP | MAX | |
| Frequency | | 2.00 | | 12.00 | MHz |
| Resonant Resistance | 2 ~ 2.99 MHz | | | 100 | Ω |
| | 3 ~ 3.49 MHz | | | 50 | Ω |
| | 3.5 ~ 12 MHz | | | 30 | Ω |
| Frequency Tolerance | @ +25°C | | | ± 0.5 | % |
| Frequency Stability | -25 ~ +85°C | | | ± 0.2 | % |
| Withstanding Voltage | DC, 5 s Max. | | | 100 | V |
| Insulation Resistance | 10V, 1 Min. | 100 | | | M Ω |
| Operating Temperature | T _{opr} | -25 | | +85 | °C |
| Storage Temperature | T _{stg} | -55 | | +85 | °C |
| Aging (First Year) | @ +25°C $\pm 3^\circ\text{C}$ | | | ± 0.1 | % |

DIMENSIONS (mm)



*:EIAJ Monthly Code

| PAD CONNECTIONS | |
|-----------------|--------|
| 1 | In/Out |
| 2 | Out/In |

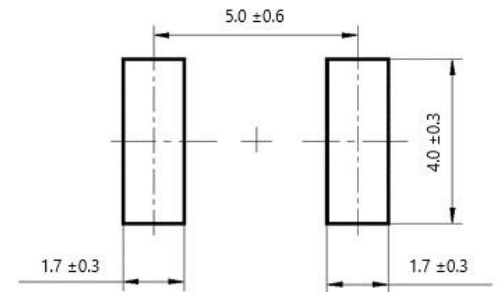


Figure 1) Top, Side, and Bottom views

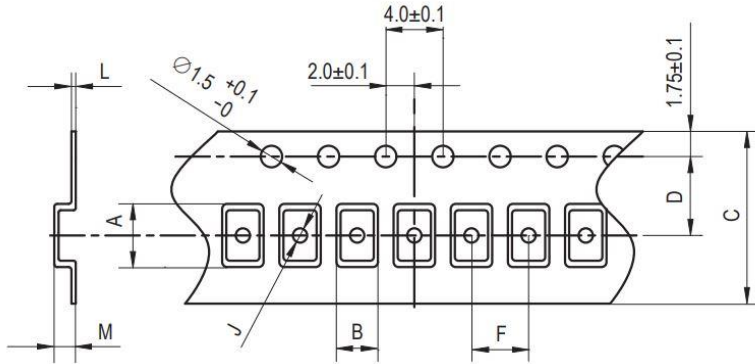
Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-CTA-8.00-TR

| ECS -CTA | FREQUENCY | PACKAGING |
|----------|--|-----------------------------|
| | 8.00 = 8.000 MHz *See Developed Frequencies Pg. 2 | TR = Tape & Reel 4K/Reel |

*Contact ECS for availability of non-developed frequencies.

POCKET TAPE DIMENSIONS (mm)



| A | B | C | D | F | J | L | M | Reel Dia. | Qty/Reel |
|-----|-----|------|-----|-----|-----|-----|-----|-----------|----------|
| 6.4 | 3.4 | 16.0 | 7.5 | 8.0 | 1.6 | 0.3 | 2.1 | 330 mm | 4000 |

| SOLDER PROFILE |
|---|
| Peak solder Temp +260°C Max 10 sec Max. |
| 2 Cycles Max. |
| MSL 1, Lead Finish Sn/Ag |

| DEVELOPED FREQUENCIES |
|-----------------------|
| 2.00 MHz |
| 3.58 MHz |
| 3.64 MHz |
| 3.68 MHz |
| 4.00 MHz |
| 4.19 MHz |
| 4.91 MHz |
| 5.00 MHz |
| 6.00 MHz |
| 8.00 MHz |
| 10.00 MHz |
| 12.00 MHz |

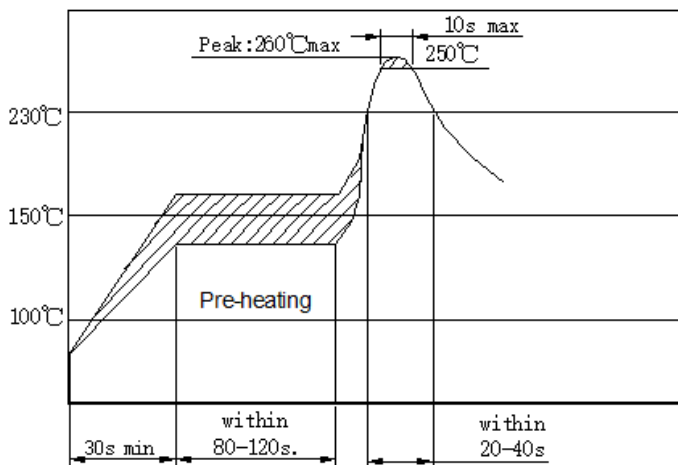


Figure3) Suggested Reflow Profile

Note: ECS does not approve the use of its products in Automotive, Military, Avionics, Life Sustaining or Life Support systems or any other related medical applications without written approval from ECS Inc.