



The ECS-SR-B Series SMD ceramic resonator includes built-in capacitors for simplification of oscillator circuits and reduces component count. The SMD ceramic resonator is an excellent low cost frequency control solution when absolute frequency accuracy is not important.

FEATURES

- Low profile SMD package
- Wide frequency range
- Built-in load capacitor
- Tape & Reel packaging

PART NUMBERING GUIDE "EXAMPLE"

| MANUFACTURER | PACKAGE TYPE | FREQUENCY | VERSION | TAPE AND REEL PACKAGING |
|--------------|--------------|-----------|---------|-------------------------|
| ECS | - SR1 | - 4.00 | - B | - TR |

Sample Part Number: ECS-SR1-4.00-B-TR, Tape & Reel Packaging

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

| PART NUMBER * | FREQUENCY RANGE (MHz) | FREQUENCY ACCURACY @ 25°C (%) | FREQUENCY STABILITY -20° ~ 80°C (%) | AGING FOR TEN YEARS (%) | RESONANT RESISTANCE (Ω) MAX. | INTERNAL CAPACITANCE C1 & C2 | INSULATION RESISTANCE @ 10 VDC |
|----------------|-----------------------|-------------------------------|-------------------------------------|-------------------------|------------------------------|------------------------------|--------------------------------|
| ECS-SR1-□-□□-B | 2.00 ~ 8.0 | ±0.5 | ±0.3 | ±0.3 | 40 | 30 pF | 100 M Ω Min. |
| ECS-SR2-□-□□-B | 8.01 ~ 13.00 | ±0.5 | ±0.3 | ±0.3 | 40 | 30 pF | 100 M Ω Min. |
| ECS-SR3-□-□□-B | 13.1 ~ 20.00 | ±0.5 | ±0.3 | ±0.3 | 30 | 30 pF | 100 M Ω Min. |
| ECS-SR4-□-□□-B | 20.1 ~ 30.00 | ±0.5 | ±0.3 | ±0.3 | 55 | 30 pF | 100 M Ω Min. |

Complete part number to include frequency i.e. ECS-SR1-4.00-B-TR

PACKAGE DIMENSIONS (mm)

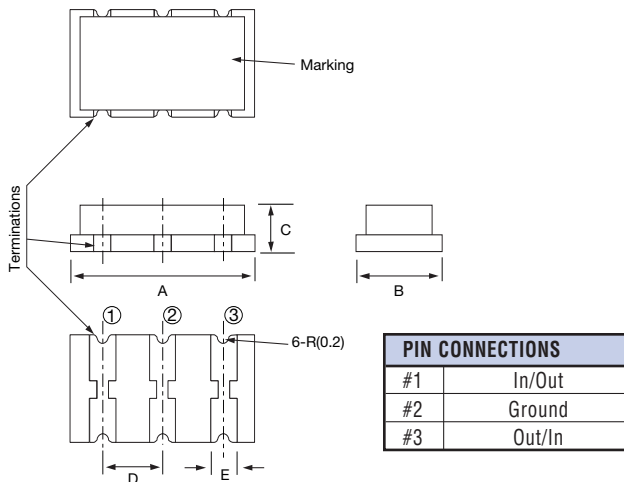


Figure 1) ECS-SR-B Series - Top, Side, Bottom & End views

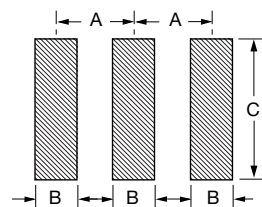


Figure 2) Land Pattern

| PACKAGE TYPE | DIMENSIONS (mm) | | | | |
|--------------|-----------------|-----|-----|-----|-----|
| | A | B | C | D | E |
| ECS-SR1 | 7.5 | 3.3 | 2.2 | 2.5 | 1.5 |
| ECS-SR2 | 8.3 | 3.5 | 1.8 | 2.5 | 1.0 |
| ECS-SR3 | 6.0 | 3.5 | 1.8 | 1.9 | 1.2 |
| ECS-SR4 | 6.0 | 5.0 | 1.8 | 1.9 | 1.2 |

| PACKAGE TYPE | DIMENSIONS (mm) | | | |
|--------------|-----------------|-----|-----|-----|
| | A | B | C | D |
| ECS-SR1 | 2.5 | 1.5 | 4.0 | 1.7 |
| ECS-SR2 | 2.5 | 1.2 | 4.7 | 1.2 |
| ECS-SR3 | 1.9 | 1.2 | 4.2 | 1.2 |
| ECS-SR4 | 1.9 | 1.2 | 5.5 | 1.2 |

Mouser Electronics

Authorized Distributor

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[ECS:](#)

[ECS-SR3-20.00-B-TR](#) [ECS-SR3-20.00-B](#) [ECS-SR1-4.19-B-TR](#) [ECS-SR1-6.00-B-TR](#) [ECS-SR1-3.58-B-TR](#) [ECS-SR1-8.00-B-TR](#) [ECS-SR1-4.00-B-TR](#) [ECS-SR1-6.00-B](#) [ECS-SR1-7.37-B-TR](#)