

# Crystals | XO's | TCXOs

## for Industrial and Robotics

Industrial Automation • PLC Control Systems • Smart Manufacturing • Industrial Robotics • Motor Control Systems • Remote Monitoring

| Product     | Aker USA Series | Package Size        | Frequency          | Tolerance   | Voltage | Operating Temp          |
|-------------|-----------------|---------------------|--------------------|-------------|---------|-------------------------|
| Tuning Fork | CTS3            | 3.2 x 1.5 x 0.9 mm  | 32.768 KHz         | ± 10 ~ ± 20 | –       | -40~+85°C<br>-40~+125°C |
| Tuning Fork | CTS2            | 2.0 x 1.2 x 0.6 mm  | 32.768 KHz         | ± 10 ~ ± 20 | –       | -40~+85°C               |
| Tuning Fork | CTS1            | 1.6 x 1.0 x 0.5 mm  | 32.768 KHz         | ± 10 ~ ± 20 | –       | -40~+85°C               |
| Crystal     | C3E             | 3.2 x 2.5 x 0.75 mm | 8.000~156.250 MHz  | ± 10 ~ ± 30 | –       | -40~+85°C<br>-40~+125°C |
| Crystal     | C2E             | 2.5 x 2.0 x 0.65 mm | 12.000~133.000 MHz | ± 10 ~ ± 30 | –       | -40~+85°C<br>-40~+125°C |
| Crystal     | C1E             | 2.0 x 1.6 x 0.5 mm  | 16.000~125.000 MHz | ± 10 ~ ± 30 | –       | -40~+85°C<br>-40~+125°C |
| Crystal     | C16             | 1.6 x 1.2 x 0.4 mm  | 24.000~96.000 MHz  | ± 10 ~ ± 30 | –       | -40~+85°C<br>-40~+125°C |

 [Learn More About Crystals](#)

|            |              |                     |            |              |   |                                       |
|------------|--------------|---------------------|------------|--------------|---|---------------------------------------|
| Oscillator | S3-32.768Khz | 3.2 x 2.5 x 1.2 mm  | 32.768 KHz | ± 20 ~ ± 100 | 1.8, 2.5, 3.3, 1.62~3.63 V                        | -40~+85°C<br>-40~+105°C<br>-40~+125°C |
| Oscillator | S2-32.768Khz | 2.5 x 2.0 x 0.95 mm | 32.768 KHz | ± 20 ~ ± 100 | 1.8, 2.5, 3.3, 1.62~3.63 V                        | -40~+85°C<br>-40~+105°C<br>-40~+125°C |
| Oscillator | S1-32.768Khz | 2.0 x 1.6 x 0.8 mm  | 32.768 KHz | ± 25 ~ ± 100 | 1.8, 2.5, 3.3, 1.62~3.63 V                        | -40~+85°C<br>-40~+105°C<br>-40~+125°C |
| Oscillator | S3           | 3.2 x 2.5 x 1.2 mm  | 1~160 MHz  | ± 20 ~ ± 100 | 0.9, 1.2, 1.5, 1.8, 2.5, 3.3,<br>1.62~3.63, 5.0 V | -40~+85°C<br>-40~+105°C<br>-40~+125°C |
| Oscillator | S2           | 2.5 x 2.0 x 0.95 mm | 2~160 MHz  | ± 20 ~ ± 100 | 0.9, 1.2, 1.5, 1.8, 2.5, 3.3,<br>1.62~3.63, 5.0 V | -40~+85°C<br>-40~+105°C<br>-40~+125°C |
| Oscillator | S1           | 2.0 x 1.6 x 0.8 mm  | 2~60 MHz   | ± 25 ~ ± 100 | 0.9, 1.2, 1.5, 1.8, 2.5, 3.3,<br>1.62~3.63 V      | -40~+85°C<br>-40~+105°C<br>-40~+125°C |
| Oscillator | S16          | 1.6 x 1.2 x 0.7 mm  | 2~60 MHz   | ± 25 ~ ± 100 | 1.8, 2.5, 3.3, 1.62~3.63 V                        | -40~+85°C<br>-40~+105°C<br>-40~+125°C |

 [Learn More About Oscillators](#)