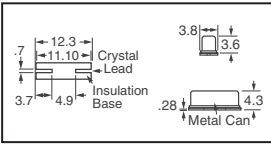


CTS[®] ATS-SM Series Crystals



Specifications:

- Frequency Tolerance: ±30ppm @ 25°C • Shunt Capacitance: 7.0pF Maximum • Max Drive Level: 1,000mW
- Frequency Stability: ±50ppm • Operating Temperature: -20°C ~ 70°C • Operating Mode: Fundamental

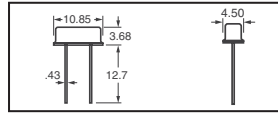
| Frequency (MHz) | Load Cap. | Digi-Key Part No. | Cut Tape Price Each | | | Digi-Key Part No. | T & R Pricing 1,000 | CTS Part No. | |
|-----------------|-----------|-------------------|---------------------|------|------|-------------------|---------------------|--------------|-------------|
| | | | 1 | 10 | 50 | | | | 100 |
| 3.579545 | 18.0pF | CTX500CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX500TR-ND | 702.64 | ATS036SM-T |
| 3.686400 | 18.0pF | CTX878CT-ND | .62 | .54 | .47 | .38 | CTX878TR-ND | 232.54 | ATS037BSM-1 |
| 3.686400 | 20.0pF | CTX501CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX501TR-ND | 702.64 | ATS037SM-T |
| 4.000000 | 18.0pF | CTX879CT-ND | .62 | .54 | .47 | .38 | CTX879TR-ND | 232.54 | ATS040BSM-1 |
| 4.000000 | 20.0pF | CTX502CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX502TR-ND | 702.64 | ATS040SM-T |
| 4.915200 | 18.0pF | CTX880CT-ND | .62 | .54 | .47 | .38 | CTX880TR-ND | 232.54 | ATS049BSM-1 |
| 4.915200 | 20.0pF | CTX503CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX503TR-ND | 702.64 | ATS042SM-T |
| 5.000000 | 18.0pF | CTX881CT-ND | .62 | .54 | .47 | .38 | CTX881TR-ND | 232.54 | ATS050BSM-1 |
| 5.068800 | 20.0pF | CTX504CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX504TR-ND | 702.64 | ATS050SM-T |
| 6.000000 | 18.0pF | CTX882CT-ND | .62 | .54 | .47 | .38 | CTX882TR-ND | 232.54 | ATS060BSM-1 |
| 6.000000 | 20.0pF | CTX505CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX505TR-ND | 702.64 | ATS060SM-T |
| 6.144000 | 18.0pF | CTX883CT-ND | .62 | .54 | .47 | .38 | CTX883TR-ND | 232.54 | ATS061BSM-1 |
| 8.000000 | 18.0pF | CTX884CT-ND | .62 | .54 | .47 | .38 | CTX884TR-ND | 232.54 | ATS080BSM-1 |
| 8.000000 | 20.0pF | CTX506CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX506TR-ND | 702.64 | ATS080SM-T |
| 9.830400 | 18.0pF | CTX885CT-ND | .62 | .54 | .47 | .38 | CTX885TR-ND | 232.54 | ATS098BSM-1 |
| 9.830400 | 20.0pF | CTX507CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX507TR-ND | 702.64 | ATS098SM-T |
| 10.000000 | 18.0pF | CTX886CT-ND | .62 | .54 | .47 | .38 | CTX886TR-ND | 232.54 | ATS100BSM-1 |
| 10.000000 | Series | CTX508CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX508TR-ND | 702.64 | ATS100SM-T |
| 11.059200 | 18.0pF | CTX887CT-ND | .62 | .54 | .47 | .38 | CTX887TR-ND | 232.54 | ATS111BSM-1 |
| 11.059200 | 20.0pF | CTX509CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX509TR-ND | 702.64 | ATS111SM-T |
| 12.000000 | 18.0pF | CTX888CT-ND | .62 | .54 | .47 | .38 | CTX888TR-ND | 232.54 | ATS120BSM-1 |
| 12.000000 | Series | CTX510CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX510TR-ND | 702.64 | ATS120SM-T |
| 12.288000 | 18.0pF | CTX889CT-ND | .62 | .54 | .47 | .38 | CTX889TR-ND | 232.54 | ATS122BSM-1 |
| 12.288000 | 20.0pF | CTX511CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX511TR-ND | 702.64 | ATS122SM-T |
| 14.318180 | 18.0pF | CTX890CT-ND | .62 | .54 | .47 | .38 | CTX890TR-ND | 232.54 | ATS143BSM-1 |
| 14.318180 | Series | CTX512CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX512TR-ND | 702.64 | ATS143SM-T |
| 14.745600 | 18.0pF | CTX892CT-ND | .62 | .54 | .47 | .38 | CTX892TR-ND | 232.54 | ATS147BSM-1 |
| 14.745600 | 20.0pF | CTX891CT-ND | .62 | .54 | .47 | .38 | CTX891TR-ND | 232.54 | ATS147ASM-1 |
| 15.360000 | 20.0pF | CTX513CT-ND | 1.76 | 1.51 | 1.26 | 1.01 | CTX513TR-ND | 702.64 | ATS15ASM-T |
| 16.000000 | Series | CTX514CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX514TR-ND | 702.64 | ATS160SM-T |
| 20.000000 | 18.0pF | CTX893CT-ND | .62 | .54 | .47 | .38 | CTX893TR-ND | 232.54 | ATS200CSM-1 |
| 20.000000 | Series | CTX515CT-ND | 1.89 | 1.64 | 1.44 | 1.13 | CTX515TR-ND | 702.64 | ATS200SM-T |
| 20.480000 | 20.0pF | CTX516CT-ND | 2.19 | 1.90 | 1.67 | 1.32 | CTX516TR-ND | 816.93 | ATS204SM-T |
| 24.576000 | 18.0pF | CTX894CT-ND | .58 | .51 | .44 | .36 | CTX894TR-ND | 218.37 | ATS245ASM-1 |
| 24.576000 | Series | CTX517CT-ND | 2.19 | 1.90 | 1.67 | 1.32 | CTX517TR-ND | 816.93 | ATS245SM-T |

✓ NEW!

ATS Series Crystals

Specifications:

- Frequency Tolerance: ±30ppm @ 25°C
- Shunt Capacitance: 7pF Maximum
- Max Drive Level: 1,000mW
- Frequency Stability: ±50ppm
- Operating Mode: Fundamental



| Frequency (MHz) | Load Cap. | Digi-Key Part No. | Price Each | | | CTS Part No. | |
|--|-----------|-----------------------|------------|-----|-----|--------------|---------|
| | | | 1 | 10 | 50 | | 100 |
| ±50ppm Frequency Stability -20°C ~ 70°C | | | | | | | |
| 3.579545 | 18.0pF | CTX400-ND | .99 | .86 | .72 | .57 | ATS036 |
| 3.686400 | 18.0pF | CTX895-ND NEW! | .51 | .44 | .37 | .30 | ATS037B |
| 3.686400 | 20.0pF | CTX401-ND | .99 | .86 | .72 | .57 | ATS037 |
| 4.000000 | 18.0pF | CTX896-ND NEW! | .51 | .44 | .37 | .30 | ATS040B |
| 4.000000 | 20.0pF | CTX402-ND | .90 | .77 | .64 | .52 | ATS040 |
| 4.915200 | 18.0pF | CTX897-ND NEW! | .51 | .44 | .37 | .30 | ATS049B |
| 4.915200 | 20.0pF | CTX403-ND | .90 | .77 | .64 | .52 | ATS042 |
| 5.068800 | 20.0pF | CTX404-ND | .90 | .77 | .64 | .52 | ATS050 |
| 6.000000 | 18.0pF | CTX898-ND NEW! | .51 | .44 | .37 | .30 | ATS060B |
| 6.000000 | 20.0pF | CTX405-ND | .90 | .77 | .64 | .52 | ATS060 |
| 6.144000 | 18.0pF | CTX899-ND NEW! | .51 | .44 | .37 | .30 | ATS061B |
| 8.000000 | 18.0pF | CTX900-ND NEW! | .51 | .44 | .37 | .30 | ATS080B |
| 8.000000 | 20.0pF | CTX406-ND | .90 | .77 | .64 | .52 | ATS080A |
| 9.830400 | 18.0pF | CTX901-ND NEW! | .51 | .44 | .37 | .30 | ATS098B |
| 9.830400 | 20.0pF | CTX407-ND | .90 | .77 | .64 | .52 | ATS098 |
| 10.000000 | 18.0pF | CTX902-ND NEW! | .51 | .44 | .37 | .30 | ATS100B |
| 10.000000 | Series | CTX408-ND | .90 | .77 | .64 | .52 | ATS100 |
| 11.059200 | 18.0pF | CTX903-ND NEW! | .51 | .44 | .37 | .30 | ATS111B |
| 11.059200 | 20.0pF | CTX409-ND | .90 | .77 | .64 | .52 | ATS111 |
| 12.000000 | 18.0pF | CTX904-ND NEW! | .51 | .44 | .37 | .30 | ATS120B |
| 12.000000 | Series | CTX410-ND | .90 | .77 | .64 | .52 | ATS120 |
| 12.288000 | 18.0pF | CTX905-ND NEW! | .51 | .44 | .37 | .30 | ATS122B |
| 12.288000 | 20.0pF | CTX411-ND | .90 | .77 | .64 | .52 | ATS122 |
| 14.318180 | 18.0pF | CTX906-ND NEW! | .51 | .44 | .37 | .30 | ATS143B |
| 14.318180 | Series | CTX412-ND | .90 | .77 | .64 | .52 | ATS143 |
| 14.745600 | 18.0pF | CTX908-ND NEW! | .51 | .44 | .37 | .30 | ATS147B |
| 14.745600 | 20.0pF | CTX907-ND NEW! | .51 | .44 | .37 | .30 | ATS147A |
| 15.360000 | 20.0pF | CTX413-ND | .90 | .77 | .64 | .52 | ATS15A |
| 16.000000 | Series | CTX414-ND | .90 | .77 | .64 | .52 | ATS160 |
| 16.000000 | 20.0pF | CTX415-ND | .90 | .77 | .64 | .52 | ATS16A |

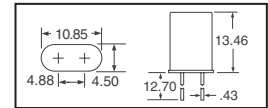
| Frequency (MHz) | Load Cap. | Digi-Key Part No. | Price Each | | | | CTS Part No. |
|--|-----------|-----------------------|------------|------|------|-----|--------------|
| | | | 1 | 10 | 50 | 100 | |
| 20.000000 | 18.0pF | CTX909-ND NEW! | .51 | .44 | .37 | .30 | ATS200C |
| 20.000000 | Series | CTX416-ND | .90 | .77 | .64 | .52 | ATS200 |
| 20.480000 | 20.0pF | CTX417-ND | .54 | .46 | .39 | .31 | ATS204 |
| 24.576000 | 18.0pF | CTX910-ND NEW! | .48 | .42 | .35 | .28 | ATS245A |
| 24.576000 | Series | CTX418-ND | 1.41 | 1.22 | 1.01 | .81 | ATS245 |
| 25.000000 | 18.0pF | CTX911-ND NEW! | .71 | .61 | .51 | .41 | ATS250B |
| 25.000000 | Series | CTX419-ND | 1.41 | 1.22 | 1.01 | .81 | ATS250 |
| NEW! ±50ppm Frequency Stability -40°C ~ 85°C NEW! | | | | | | | |
| 3.6864000 | 18.0pF | CTX912-ND | .59 | .50 | .42 | .34 | ATS037B-E |
| 4.0000000 | 18.0pF | CTX913-ND | .59 | .50 | .42 | .34 | ATS040B-E |
| 4.9152000 | 18.0pF | CTX914-ND | .59 | .50 | .42 | .34 | ATS049B-E |
| 6.0000000 | 18.0pF | CTX915-ND | .59 | .50 | .42 | .34 | ATS060B-E |
| 6.1440000 | 18.0pF | CTX916-ND | .59 | .50 | .42 | .34 | ATS061B-E |
| 8.0000000 | 18.0pF | CTX917-ND | .59 | .50 | .42 | .34 | ATS098B-E |
| 9.8304000 | 18.0pF | CTX918-ND | .59 | .50 | .42 | .34 | ATS098B-E |
| 10.0000000 | 18.0pF | CTX919-ND | .59 | .50 | .42 | .34 | ATS100B-E |
| 11.0592000 | 18.0pF | CTX920-ND | .59 | .50 | .42 | .34 | ATS111B-E |
| 12.0000000 | 18.0pF | CTX921-ND | .59 | .50 | .42 | .34 | ATS120B-E |
| 12.2880000 | 18.0pF | CTX922-ND | .59 | .50 | .42 | .34 | ATS122B-E |
| 14.3181800 | 18.0pF | CTX923-ND | .59 | .50 | .42 | .34 | ATS143B-E |
| 14.7456000 | 18.0pF | CTX925-ND | .59 | .50 | .42 | .34 | ATS147B-E |
| 14.7456000 | 20.0pF | CTX924-ND | .59 | .50 | .42 | .34 | ATS147A-E |
| 20.0000000 | 18.0pF | CTX926-ND | .59 | .50 | .42 | .34 | ATS200C-E |
| 24.5760000 | 18.0pF | CTX927-ND | .55 | .47 | .39 | .32 | ATS245A-E |
| 25.0000000 | 18.0pF | CTX928-ND | .55 | .47 | .39 | .32 | ATS250B-E |

HC49INS-ND Base Insulator..... \$1.01/10 \$8.42/100

Microprocessor Crystals

Specifications:

- Frequency Tolerance: ±30ppm @ 25°C
- Operating Temperature: -20°C ~ 70°C
- Fully hermetic resistance weld package



| Frequency (MHz) | Load Capacitance | Digi-Key Part No. | Price Each | | | CTS Part No. |
|--|------------------|-----------------------|------------|------|------|--------------|
| | | | 1 | 10 | 100 | |
| ±50ppm Frequency Stability -20°C ~ 70°C | | | | | | |
| 1.843200 | 13.0pF | CTX067-ND | 2.19 | 1.88 | 1.26 | MP018S |
| 2.000000 | 18.0pF | CTX860-ND NEW! | .73 | .63 | .42 | MP020B |
| 2.000000 | 20.0pF | CTX068-ND | 2.19 | 1.88 | 1.26 | MP020S |
| 2.457600 | 32.0pF | CTX069-ND | 2.19 | 1.88 | 1.26 | MP024S |
| 3.579545 | 18.0pF | CTX049-ND | .90 | .77 | .52 | MP036S |
| 3.686400 | 18.0pF | CTX861-ND NEW! | .73 | .63 | .42 | MP037B |
| 3.686400 | 20.0pF | CTX071-ND | .90 | .77 | .52 | MP037 |
| 4.000000 | Series | CTX080-ND | .90 | .77 | .52 | MP04A |
| 4.000000 | 18.0pF | CTX862-ND NEW! | .73 | .63 | .42 | MP040B |
| 4.000000 | 20.0pF | CTX006-ND | .90 | .77 | .52 | MP040 |
| 4.194304 | 12.0pF | CTX007-ND | .90 | .77 | .52 | MP041 |
| 4.915200 | 18.0pF | CTX863-ND NEW! | .73 | .63 | .42 | MP049B |
| 4.915200 | 20.0pF | CTX050-ND | .90 | .77 | .52 | MP042 |
| 5.000000 | Series | CTX081-ND | .90 | .77 | .52 | MP05B |
| 5.000000 | 18.0pF | CTX864-ND NEW! | .73 | .63 | .42 | MP050C |
| 5.000000 | 20.0pF | CTX051-ND | .90 | .77 | .52 | MP05A |
| 5.068800 | Series | CTX052-ND | .90 | .77 | .52 | MP050 |
| 6.000000 | 18.0pF | CTX865-ND NEW! | .73 | .63 | .42 | MP060B |
| 6.000000 | 20.0pF | CTX026-ND | .90 | .77 | .52 | MP060 |
| 6.144000 | 20.0pF | CTX054-ND | .90 | .77 | .52 | MP061 |
| 7.372800 | Series | CTX074-ND | .90 | .77 | .52 | MP073 |
| 8.000000 | Series | CTX056-ND | .90 | .77 | .52 | MP080 |
| 8.000000 | 18.0pF | CTX866-ND NEW! | .73 | .63 | .42 | MP080B |
| 8.000000 | 20.0pF | CTX082-ND | .90 | .77 | .52 | MP08A |
| 9.830400 | 18.0pF | CTX867-ND NEW! | .73 | .63 | .42 | MP098B |
| 9.830400 | 20.0pF | CTX084-ND | .90 | .77 | .52 | MP098 |
| 10.000000 | Series | CTX057-ND | .90 | .77 | .52 | MP100 |
| 10.000000 | 30.0pF | CTX083-ND | .90 | .77 | .52 | MP101 |
| 10.738635 | 32.0pF | CTX085-ND | .90 | .77 | .52 | MP107 |
| 11.000000 | 18.0pF | CTX086-ND | .90 | .77 | .52 | MP110 |
| 11.059200 | Series | CTX078-ND | .90 | .77 | .52 | MP111 |
| 12.000000 | Series | CTX058-ND | .90 | .77 | .52 | MP120 |
| 12.288000 | 32.0pF | CTX087-ND | .90 | .77 | .52 | MP122 |
| 14.318180 | Series | | | | | |