

Surface Mount Crystal

Fits Epson MA406 footprint.

Series **CX406**



Part Numbering Example: CX406 Z - A1 B2 C2 200 - 3.579545 D18 - 3

| CX406 | Z | A1* | B2 | C2 | 200 | 3.579545 | D18 | - 3 |
|--------|--|---|--|--|--------------------|-----------|-------------------------------|---|
| SERIES | ADDED FEATURES | OPERATING TEMP. | STABILITY | TOLERANCE | RESISTANCE | FREQUENCY | LOAD CAP. | OVERTONE |
| CX406 | BLANK = BULK PACK Z = TAPE AND REEL | A0 = -10°C ~ +60°C A1 = -10°C ~ +70°C A2 = -40°C ~ +85°C A3 = -55°C ~ +125°C | B1 = ±100 B2 = ± 50 B3 = ± 30 B4 = ± 10 | C1 = ±100 C2 = ± 50 C3 = ± 30 C4 = ± 10 | SEE CHART BELOW | | D16,18,20,ETC. DS = SERIES | BLANK: FUND. -3: 3rd OT -5: 5th OT -7: 7th OT -BT: BT Cut |

**NOTE: The above ABC combinations cover basic specification options. We tailor our crystal specifications to meet customer requirements. Please contact our sales department if you don't see exactly what you need.*

Specifications:

Frequency Range:

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|------------------------|---------------------|
| 3.579545 ~ 38.000 MHz | AT Cut Fundamental |
| 25.000000 ~ 75.000 MHz | AT Cut 3rd Overtone |
| 26.000000 ~ 42.000 MHz | BT Cut Fundamental |

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|-------------------------------|---------------|----------|
| Operating Temperature: | -10°C ~ +70°C | Standard |
| | -40°C ~ +85°C | |

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|-----------------------------|----------|----------|
| Frequency Stability: | ±100 ppm | |
| | ± 50 ppm | Standard |
| | ± 30 ppm | |
| | ± 15 ppm | |

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| Frequency Tolerance: | ±100 ppm | |
| (at 25°C) | ± 50 ppm | Standard |
| | ± 30 ppm | |
| | ± 10 ppm | |

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| Load Capacitance: | Standard 18 pF or series. |
| | Please specify your required load. |

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| Resistance: | Maximum resistance corresponds to frequency. |
| | See chart below. |

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|------------------|-----------------------------------|
| Standard: | Mode: Fundamental or 3rd Overtone |
| | Shunt Capacitance: 7 pF Max |
| | Aging: ± 5 ppm/year |
| | Drive Level: 1.0 mW Max |

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| Optional Features: | Tape and Reel (1K per Reel) |
|---------------------------|-----------------------------|

Note: Not all combinations of the above tolerances, stabilities, and temperature ranges are available. Consult the factory if your requirement is not standard.

Resistance Chart: All resistances are maximum values.

| EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT | | | | | |
|---|---------|----------|---------------|---------|-----------------|
| Frequency MHz | ESR(Ω) | Mode/cut | Frequency MHz | ESR (Ω) | Mode/cut |
| 3.579545~4.999 | 200 Max | Fund./AT | 15.000~15.999 | 60 Max | Fund./AT |
| 5.000~5.999 | 150 Max | Fund./AT | 16.000~23.999 | 50 Max | Fund./AT |
| 6.000~7.999 | 120 Max | Fund./AT | 24.000~30.000 | 40 Max | Fund./AT |
| 8.000~8.999 | 90 Max | Fund./AT | 24.000~48.000 | 40 Max | Fund./BT |
| 9.000~9.999 | 80 Max | Fund./AT | 24.576~29.999 | 150 Max | 3rd Overtone/AT |
| 10.000~14.999 | 70 Max | Fund./AT | 30.000~75.000 | 100 Max | 3rd Overtone/AT |

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