

## Low Profile Holder Type Crystal Units



This part is a miniature AT cut strip crystal unit with a low profile package. It is with resistance weld.

### FEATURES

- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- 100 % Lead (Pb)-free and RoHS compliant


**RoHS**  
COMPLIANT

| STANDARD ELECTRICAL SPECIFICATIONS |                |                     |      |       |         |        |
|------------------------------------|----------------|---------------------|------|-------|---------|--------|
| PARAMETER                          | SYMBOL         | CONDITION           | UNIT | MIN   | TYPICAL | MAX    |
| Frequency Range                    | $F_O$          |                     | MHz  | 3.200 |         | 66.000 |
| Frequency Tolerance                | $\Delta F/F_O$ | at 25 °C            | ppm  | ± 10  | ± 30    | ± 50   |
| Temperature Stability              | TC             | ref to 25 °C        | ppm  | ± 10  | ± 30    | ± 50   |
| Operating Temperature Range        | $T_{OPR}$      |                     | °C   | - 20  |         | + 70   |
| Storing Temperature Range          | $T_{STG}$      |                     | °C   | - 40  |         | + 85   |
| Shunt Capacitance                  | $C_O$          |                     | pF   |       |         | 7      |
| Load Capacitance                   | CL             | Customer Specified  | pF   | 10    |         | Series |
| Insulator Resistance               | IR             | 100 V <sub>DC</sub> | MΩ   | 500   |         |        |
| Drive Level                        | DL             |                     | μW   |       | 100     | 500    |
| Aging (first year)                 | Fa             | at 25 °C, per year  | ppm  | - 5.0 |         | + 5.0  |

| EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE) |             |                |                       |             |                |
|---|-------------|----------------|-----------------------|-------------|----------------|
| FREQUENCY RANGE (MHz)   | MAX ESR (Ω) | MODE           | FREQUENCY RANGE (MHz) | MAX ESR (Ω) | MODE           |
| 3.200 to 4.499  | 150         | Fundamental/AT | 9.000 to 9.999        | 60          | Fundamental/AT |
| 4.500 to 5.999  | 120         | Fundamental/AT | 10.000 to 12.999      | 50          | Fundamental/AT |
| 6.000 to 6.999  | 100         | Fundamental/AT | 13.000 to 30.000      | 40          | Fundamental/AT |
| 7.000 to 7.999  | 90          | Fundamental/AT | 30.000 to 66.000      | 80          | 3rd Overtone   |
| 8.000 to 8.999  | 80          | Fundamental/AT |                       |             |                |

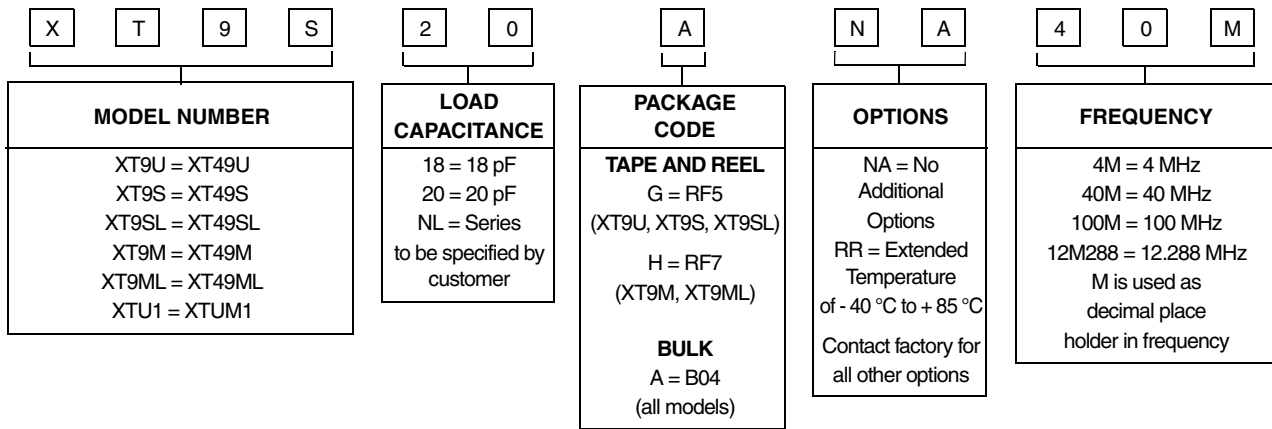
### DIMENSIONS in inches [millimeters]



| ORDERING INFORMATION |  |   |  |               |                               |
|----------------------|--|---|--|---------------|-------------------------------|
| <b>XT49S</b>         | <b>R</b>                                   | <b>- 20</b>   | <b>SP</b>                                      | <b>12 M</b>   | <b>e2</b>                     |
| MODEL                | OTR  | LOAD  | OPTIONS  | FREQUENCY/MHz | JEDEC LEAD (Pb)-FREE STANDARD |
|                      | Blank = Standard<br>R = - 40 °C to + 85 °C | Blank = Series<br>- 16 = 16 pF<br>- 20 = 20 pF Standard<br>- 30 = 30 pF<br>- 32 = 32 pF | Blank = Standard<br>SP = Spacer<br>SL = Sleeve |               |                               |

| GLOBAL PART NUMBER |   |   |   |      |   |              |         |   |           |   |   |
|--------------------|---|---|---|------|---|--------------|---------|---|-----------|---|---|
| X                  | T | 9 | S | 2    | 0 | A            | N       | A | 1         | 2 | M |
| MODEL              |   |   |   | LOAD |   | PACKAGE CODE | OPTIONS |   | FREQUENCY |   |   |

## GLOBAL PART NUMBERING



Example: XT49S-20 40M



Example: XT26T 32.768K



Example: XT57C-20 40M



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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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