XT49SL

Vishay Dale



Low Profile Holder Type Crystal Units



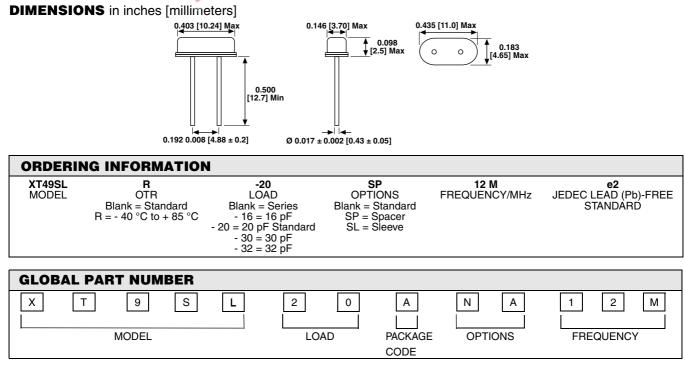
FEATURES

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

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

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | | |
|------------------------------------|------------------|---------------------|------|-------|---------|--------|--|--|
| PARAMETER | SYMBOL | CONDITION | UNIT | MIN | TYPICAL | MAX | | |
| Frequency Range | Fo | | MHz | 3.200 | | 66.000 | | |
| Frequency Tolerance | $\Delta F/F_0$ | 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 | Co | | pF | 4.4 | | 7 | | |
| Load Capacitance | CL | Customer Specified | pF 🕺 | 10 | | Series | | |
| Insulator Resistance | IR | 100 V _{DC} | 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 | | | | | | | |







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GLOBAL PART NUMBERING Х Т 9 S 0 Ν А 4 0 Μ 2 А LOAD PACKAGE MODEL NUMBER OPTIONS FREQUENCY CAPACITANCE CODE XT9U = XT49U $18 = 18 \, \text{pF}$ TAPE AND REEL NA = No4M = 4 MHzXT9S = XT49S $20 = 20 \, \text{pF}$ G = RF5 Additional 40M = 40 MHz XT9SL = XT49SL NL = Series (XT9U, XT9S, XT9SL) Options 100M = 100 MHz RR = Extended XT9M = XT49M to be specified by 12M288 = 12.288 MHz H = RF7Temperature customer XT9ML = XT49ML M is used as (XT9M, XT9ML) of - 40 °C to + 85 °C XTU1 = XTUM1 decimal place holder in frequency Contact factory for BULK all other options A = B04A State of the (all models) Example: XT49S-20 40M Х 2 6 Т Т 2 8 Т 3 Κ 7 6 OPERATING PACKAGE MODEL NUMBER TEMPERATURE FREQUENCY CODE (OTR) XT26T = XT26TT = - 10 °C to + 60 °C BULK 32K768 = 32.768 kHz XT38T = XT38TA = B04 K is used as decimal place holder (all models) in frequency Example: XT26T 32.768K Х Т 5 2 4 Μ 0 0 LOAD PACKAGE MODEL NUMBER FREQUENCY CODE CAPACITANCE XT57 = XT57C 18 = 18 pF TAPE AND REEL 4M = 4 MHzXT46 = XT46C20 = 20 pFH = RF740M = 40 MHzXT36 = XT36C NL = Series 100M = 100 MHz 12M288 = 12.288 MHz to be specified by BULK customer M is used as A = B04 decimal place (all models) holder in frequency Example: XT57C-20 40M



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