XT49S

Vishay Dale



Low Profile Holder Type Crystal Units



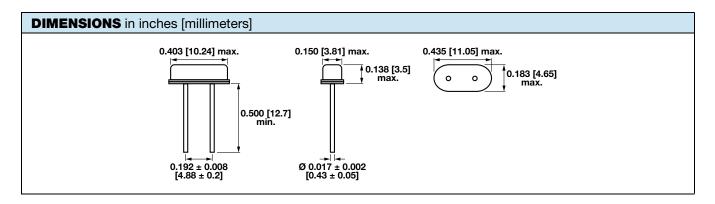
FEATURES

- Low cost
- Industry standard
- Wide frequency range
- Excellent aging
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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. | TYP. | MAX. | | |
| Frequency range | Fo | | MHz | 3.579545 | - | 66.000 | | |
| Frequency tolerance | $\Delta F/F_{O}$ | at 25 °C | ppm | -30 | - | +30 | | |
| Temperature stability | T _C | ref. to 25 °C | ppm | -50 | - | +50 | | |
| Operating temperature range | T _{OPR} | | °C | -10 | - | +70 | | |
| Storage temperature range | T _{STG} | | °C | -55 | - | +125 | | |
| Shunt capacitance | C ₀ | | pF | - | - | 7 | | |
| Load capacitance | CL | customer specified | pF | 10 | - | series | | |
| Insulation resistance | I _R | 100 V _{DC} | MΩ | 500 | - | - | | |
| Drive level | DL | | μW | - | 100 | 500 | | |
| Aging (first year) | Fa | at 25 °C, per year | ppm | -5 | - | +5 | | |

| EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE) | | | | | | | | | |
|---|--------------|----------------|-----------------------|--------------|--------------------------|--|--|--|--|
| FREQUENCY RANGE (MHz) | MAX. ESR (Ω) | MODE | FREQUENCY RANGE (MHz) | MAX. ESR (Ω) | MODE | | | | |
| 3.579 to 3.999 | 200 | fundamental/AT | 10.000 to 13.999 | 80 | fundamental/AT | | | | |
| 4.000 to 4.999 | 150 | fundamental/AT | 14.000 to 39.999 | 50 | fundamental/AT | | | | |
| 5.000 to 5.999 | 120 | fundamental/AT | 40.000 to 66.000 | 80 | 3 rd overtone | | | | |
| 6.000 to 9.999 | 100 | fundamental/AT | | | | | | | |



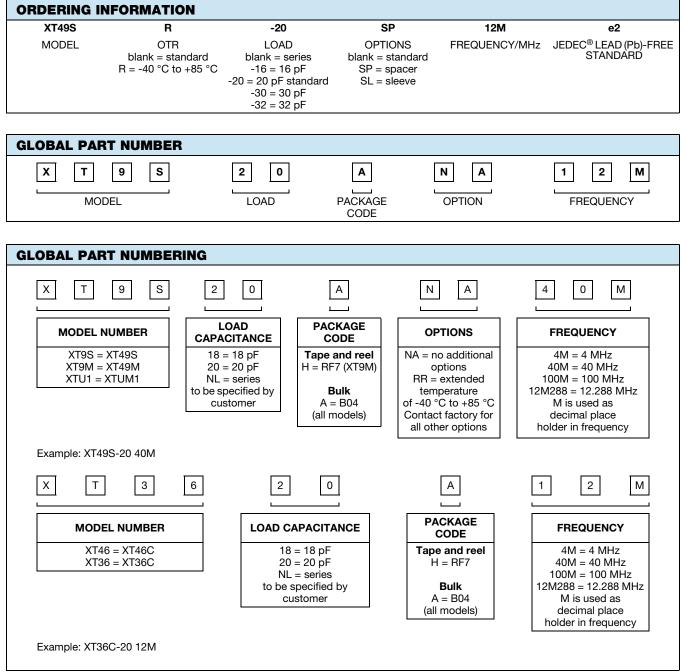
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COMPLIANT

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