

RESISTANCE WELD CRYSTAL (GULLWING) HC49UW

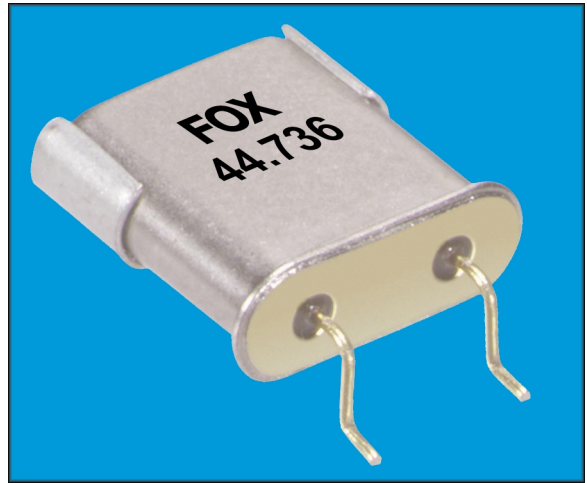
The HC49UW Quartz Crystal features a rugged resistance weld package which allows for a better aging factor than its solder seal equivalent, HC18UW.

FEATURES

- Low Cost
- Industry Standard
- Wide Frequency Range
- Excellent Aging
- "AT" Cut Crystal

OPTIONS

- Extended Temp. Ranges
- Tighter Tolerances/Stabilities



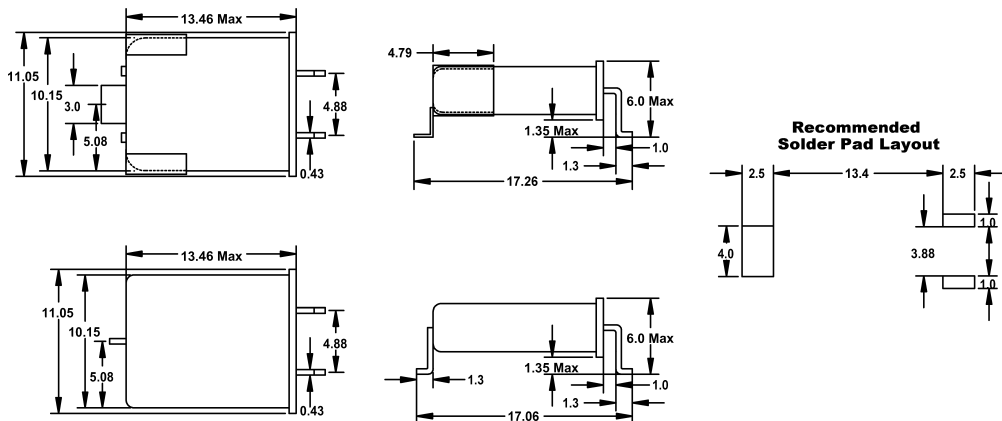
• HC49UW STANDARD SPECIFICATIONS *

| PARAMETERS | CONDITIONS | MIN | MAX | UNITS |
|---------------------------------|----------------------|--------|---------|-------|
| Frequency Range | | 1.8432 | 180.000 | MHz |
| Frequency Tolerance | Ta = 25°C | -30 | +30 | PPM |
| Frequency Stability, ref @ 25°C | Ta = -20°C ~ +70°C | -50 | +50 | PPM |
| Temperature Range | | | | |
| Operating (TOPR) | | -20 | +70 | °C |
| Storage (TSTG) | | -30 | +85 | |
| Shunt Capacitance (Co) | | | 7.0 | pF |
| Load Capacitance (CL) | Customer Specified | 10.0 | Series | pF |
| Drive Level | 1.8432 ~ 3.000 MHz | | 2.0 | mW |
| | 3.000+ ~ 180.000 MHz | | 1.0 | |
| Aging | Ta = 25°C; per year | -5.0 | +5.0 | PPM |

| Frequency Range (MHz) | Operating Mode | Max ESR Ω | Frequency Range (MHz) | Operating Mode | Max ESR Ω |
|-----------------------|----------------|-----------|-----------------------|----------------|-----------|
| 1.8432 ~ 2.000 | Fundamental | 750 | 6.000+ ~ 8.000 | Fundamental | 40 |
| 2.000+ ~ 2.400 | Fundamental | 500 | 8.000+ ~ 10.000 | Fundamental | 35 |
| 2.400+ ~ 3.000 | Fundamental | 300 | 10.000+ ~ 12.500 | Fundamental | 30 |
| 3.000+ ~ 3.200 | Fundamental | 200 | 12.500+ ~ 16.000 | Fundamental | 25 |
| 3.200+ ~ 3.700 | Fundamental | 120 | 16.000+ ~ 25.000 | Fundamental | 20 |
| 3.700+ ~ 4.200 | Fundamental | 100 | 16.000 ~ 23.000 | 3rd OT | 60 |
| 4.200+ ~ 4.900 | Fundamental | 70 | 23.000+ ~ 65.000 | 3rd OT | 40 |
| 4.900+ ~ 5.000 | Fundamental | 55 | 60.000 ~ 110.000 | 5th OT | 80 |
| 5.000+ ~ 6.000 | Fundamental | 50 | 110.000 ~ 180.000 | 7th OT | 120 |

* Other tolerances, stabilities & operating temperature ranges available. Consult Fox Customer Service for specific requirements, or use crystal order form on page 6. All specifications subject to change without notice.

Rev. 03/02/00



All dimensions are in millimeters.