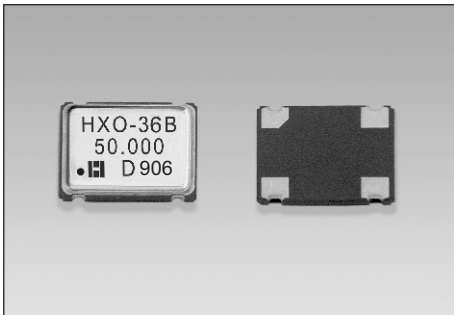




SMD CRYSTAL OSCILLATOR



• HXO-3 Series 7.0X5.0X1.5 mm



The HXO-3 series is an ultra miniature Package clock oscillator with size of 7.0X5.0X1.5mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 5.0V,3.3V,2.8V and 1.8V Option

Electrical Specifications

| Parameter | Condition | HXO-33 | HXO-36 | HXO-39 | HXO-37 | |
|-----------------------------|------------------|--|-------------|------------|------------|----------|
| Frequency Range | F _O | 1MHz~100MHz | 1MHz~133MHz | | | |
| Frequency Stability* | All Condition* | ± 25ppm, ± 50ppm, ± 100ppm | | | | |
| Operating Temperature Range | T _{OPR} | -20°C~+70°C(-40°C~+85°C option) | | | | |
| Storage Temperature Range | T _{STG} | -55°C~+125°C | | | | |
| Power supply Voltage | V _{DD} | 5.0V+/-10% | 3.3V+/-10% | 2.8V+/-10% | 1.8V+/-10% | |
| Supply Current | I _{DD} | 1MHz to 9.999MHz | 15mA Max | 8mA Max | 7mA Max | 6mA Max |
| | | 10MHz to 34.999MHz | 20mA Max | 10mA Max | 8mA Max | 7mA Max |
| | | 35MHz to 49.999MHz | 35mA Max | 25mA Max | 20mA Max | 15mA Max |
| | | 50MHz to 133.000MHz | 40mA Max | 35mA Max | 30mA Max | 25mA Max |
| Output Symmetry | Sym | At 1/2V _{DD} | | | | |
| Rise time | T _r | 10%V _{DD} ~90%V _{DD} | | | | |
| Fall Time | T _f | 90%V _{DD} ~10%V _{DD} | | | | |
| Output Voltage | V _{OH} | 90% V _{DD} Min | | | | |
| | V _{OL} | 10% V _{DD} Max | | | | |
| Output Load | HCMOS Load | 15pF Typ. | | | | |
| Start Time | T _s | 10mS Max | | | | |
| Stand-by Function | | Yes | | | | |
| Aging(First Year) | | 25°C ± 3°C | | | | |
| Pin 1,tri-state function | | Pin 1=H or open...Output active at pin 3 | | | | |
| | | Pin 1=L.....high impedance at pin 3 | | | | |
| Packing Unit | | 1000pcs/reel | | | | |

*Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

Mechanical Dimensions(mm)

