



Features

- Resistance welded type crystal units.
- A great number of standard frequencies.
- Wide frequency from 4MHz up to 200MHz.
- Excellent aging characteristics.
- Uniform frequency tuning range and modulation sensitivity.
- The best choice of TV, STB, LCDM, Communication, Mobile radio communications, Cable modem, etc.



Electrical Specifications

| Type | KHC49M QUARTZ CRYSTAL |
|--|-------------------------------------|
| Frequency Range | 4.000~200MHz |
| Frequency Tolerance(at 25°C) | ±10ppm~±50ppm, or specify |
| Frequency Stability Over Operating Temperature Range | ±10ppm~±50ppm, or specify |
| Operating Temperature Range | -20~+70°C, or specify |
| Shunt Capacitance(C ₀) | 7pF Max. |
| Drive Level | 1~500μW Max.(100μW Typical) |
| Load Capacitance | Series or 9pF~50pF |
| Aging(at 25°C) | ±5ppm / year Max. |
| Storage Temperature Range | -55~+125°C |
| Oscillator type | Fundamental /3rd /5th /7th Overtone |

Equivalent Series Resistance(ESR)

| Fundamental | | 3rd Overtone | | 5th /7th Overtone | |
|--------------|------------|--------------|-----------|-------------------|------------|
| 4~4.999MHz | 100 Ω Max. | 24~34.999MHz | 40 Ω Max. | 100~200MHz | 100 Ω Max. |
| 5~5.999MHz | 90 Ω Max. | 35~100MHz | 80 Ω Max. | | |
| 6~6.999MHz | 80 Ω Max. | | | | |
| 7~9.999MHz | 60 Ω Max. | | | | |
| 10~13.999MHz | 50 Ω Max. | | | | |
| 14~23.999MHz | 40 Ω Max. | | | | |

Ordering Information

| KHC49M | 016M | 20 | 30 | 30 | A | | F |
|--------------|------------------------------|-----------------------------|----------------------------------|----------------------------------|-----------------------|--------------|-----------------|
| Product Code | Frequency Range 16.000MHz | Load Capacitance 20=20pF | Frequency Tolerance 30=±30ppm | Frequency Stability 30=±30ppm | Operating Temperature | | Oscillator type |
| | | | | | A:-20~+70°C | D:-40~+125°C | F=Fundamental |
| | | | | | B:-10~+70°C | E:-10~+60°C | 3=3rd Overtone |
| | | | | | C:-40~+85°C | F:-30~+70°C | 5=5th Overtone |

Dimension

Units:mm

