



### 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	KHC49N 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 <sub>0</sub> )	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

KHC49N	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

