

## HC-49/U-S (for Automotive Electronics)

### Lead type

#### ■Features

- Crystal Unit for Automotive Electronics
- Metal package, lead type.
- A resistance weld completely sealed type.
- Copes with high density mounting and is optimum for mass production models.



Original Size

#### ■Specifications

Type	HC-49/U-S
Frequency Range	4000~20000kHz
Overtone Order	Fundamental
Frequency Tolerance (at 25°C)	$\pm 100 \times 10^{-6}$
Frequency Tolerance (Over The Oper. Temp. Range)	$\pm 200 \times 10^{-6}$ (referred to 25°C)
Operating Temp. Range	-40~+125°C
Storage Temp. Range	-40~+125°C
Motional Resistance	Table 1
Drive Level	50 $\mu$ W (500 $\mu$ W MAX.)(4000~15999kHz) 50 $\mu$ W (300 $\mu$ W MAX.)(16000~20000kHz)
Load Capacitance	12pF

#### ■Table 1 Motional Resistance

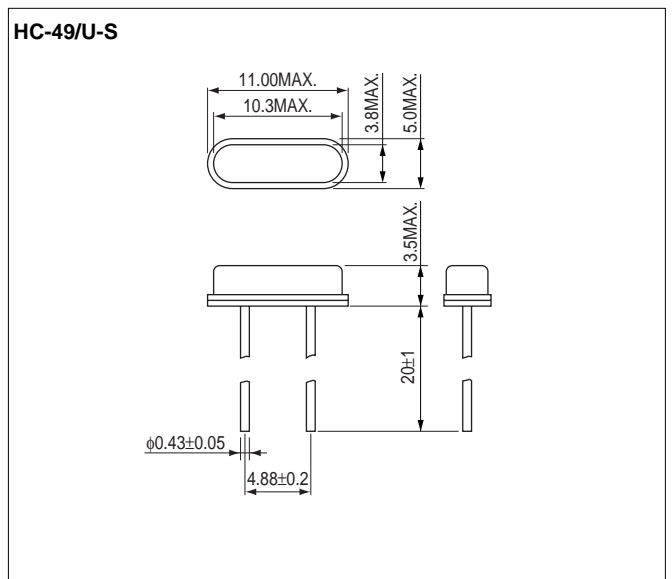
Frequency Range	Motional Resistance
4000~4099kHz (Fund.)	150 $\Omega$ Max.
4100~4799kHz (Fund.)	120 $\Omega$ Max.
4800~5999kHz (Fund.)	100 $\Omega$ Max.
6000~11999kHz (Fund.)	90 $\Omega$ Max.
12000~13499kHz (Fund.)	70 $\Omega$ Max.
13500~20000kHz (Fund.)	50 $\Omega$ Max.

#### ■Table 2 Representative Frequency

4000.000kHz	12000.000kHz
5000.000kHz	16000.000kHz
6000.000kHz	18000.000kHz
8000.000kHz	20000.000kHz
10000.000kHz	

※Please inquire about frequencies other than the above.

#### ■Outline



Dimensions(mm)