



## Quartz Crystal

### DIP HC-49U / SERIES

#### ■ Features

- ◎ Resistance welded type crystal units
- ◎ A great number of standard frequencies and wide frequency range.
- ◎ High frequency stability and reliability.
- ◎ Higher frequency pullability and lower equivalent series resistance.
- ◎ Lower cost and highly mass production capacity.
- ◎ The best choice of TV, STB, LCDM, and Cable Modern.

#### ■ Electrical Specifications

Item	type	
Frequency Range		1.8~60MHz
Frequency Tolerance(at 25°C)		± 10ppm ~ ± 50ppm, or specify
Frequency Stability Over Operating Temperature Range		± 10ppm ~ ± 50ppm, or specify
Operating Temperature Range		-10 ~ +60°C, -20 ~ +70°C
Shunt Capacitance (C0)		7 PF Max
Drive Level		5~200 μ W (100 μ W typical)
Load Capacitance		Series, 12PF, 16PF, 18PF, 20PF, 30PF, 50PF or specify
Aging (at 25°C)		± 3ppm / year Max.
Storage Temperature Range		-40 ~ +85°C

#### ■ Equivalent Series Resistance (ESR)

Fundamental		3 <sup>rd</sup> Overtone	
1.8432 ~ 2.199MHz	600 Ω Max	24.000 ~ 40.000MHz	50 Ω Max
2.2000 ~ 2.399MHz	400 Ω Max	40.000 ~ 60.000 MHz	40 Ω Max
2.4000 ~ 2.999MHz	300 Ω Max		
3.0000 ~ 3.299MHz	200 Ω Max		
3.3000 ~ 4.000MHz	150 Ω Max		
4 ~ 10MHz	80 Ω Max		
10 ~ 30MHz	25 Ω Max		

#### ■ Dimensions

