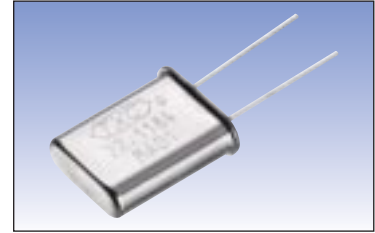


DIP HC-49U / 9A SERIES

■ **Features**

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



■ **Electrical Specifications**

| Item | Type | 9A |
|--|------|--|
| Frequency Range | | 1.843 ~ 200 MHz |
| Frequency Tolerance (at 25 °C) | | ± 30 ppm, or specify |
| Frequency Stability Over Operating Temperature Range | | ± 30 ppm, or specify |
| Operating Temperature Range | | -20 ~ +70 °C, or specify |
| Shunt Capacitance (C0) | | 7 pF Max. |
| Drive Level | | 1 ~ 1000 μW (100 μW typical) |
| Load Capacitance | | Series, 16 pF, 20 pF, 30 pF, 32 pF, or specify |
| Aging (at 25 °C) | | ± 3 ppm / year Max. |
| Storage Temperature Range | | -40 ~ +85 °C |

■ **Equivalent Series Resistance (ESR)**

| Fundamental | | 3rd Overtone | | 5th Overtone | |
|-----------------|------------|--------------|-----------|---------------|------------|
| 1.843 ~ 2.4 MHz | 600 Ω Max. | 25 ~ 40 MHz | 50 Ω Max. | 80 ~ 100 MHz | 100 Ω Max. |
| 2.4 ~ 3.3 MHz | 400 Ω Max. | 40 ~ 80 MHz | 40 Ω Max. | 100 ~ 200 MHz | 60 Ω Max. |
| 3.3 ~ 4 MHz | 150 Ω Max. | 80 ~ 120 MHz | 50 Ω Max. | | |
| 4 ~ 10 MHz | 80 Ω Max. | | | | |
| 10 ~ 30 MHz | 20 Ω Max. | | | | |

■ **Dimensions**

