

# **CERAMIC RESONATORS**

# **Description**

- Ceramic resonators in the MHz band for microprocessors.
- Applicable oscillating frequency range: 16.93MHz, 33.86MHz.

#### **Features**

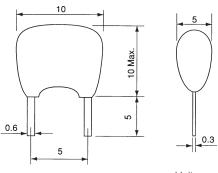
- Precise oscillating frequency without adjustment.
- May be used with a variety of ICs.
- Lead-free terminations

# **Applications**

- Reference signal oscillators for Microcomputers (CD/MD players, CD-ROM, CD-R, etc.)
- Digital applications equipment including measuring instruments, communications equipment, toys, etc.

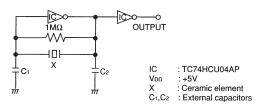
#### **Dimensions**





Unit: mm

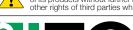
### **Test Circuit**



# STANDARD RESONATORS SELECTION GUIDE

#### TYPE CRHD (CERASONATOR®) MHz Band Resonators токо Oscillating Resonance Fosc **External Capacitor** Part Frequency (Fosc) Impedance Temp. Stability C, (-20°C ~ +80°C) (pF) Number\* (MHz) $(\Omega)$ (pF) DCRHD16.93 16.93±0.5% ±0.3% 30 30 40 max. **DCRHD33.86** 33.86±0.5% 40 max. ±0.3% 5 5

- Oscillating frequency tolerance can be designed narrower than Fosc±0.5%, but Fosc±0.2%.
- TOKO performs matching evaluations for all types of ICs. Please contact TOKO regarding applicable products.



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