

Description

- Built-in capacitor MHz band ceramic oscillators for microprocessors and infra-red remote controls, telephone D.T.M.F., reference signal oscillators, etc.
- Applicable oscillating frequency range: 2.5 — 6.0MHz

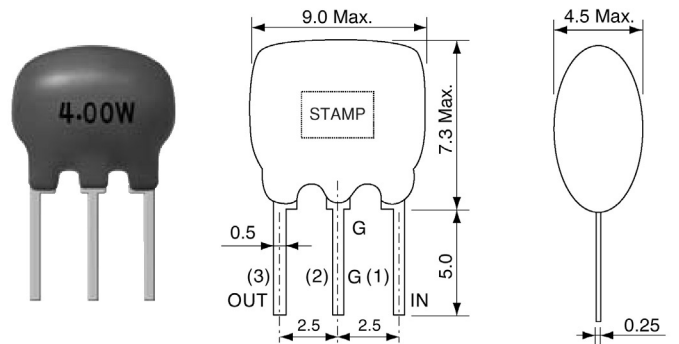
Features

- Precise oscillating frequency without adjustment.
- Load capacitors (C_1 , C_2) built-in
- May be used with a variety of ICs.
- Available on tape and reel (CRHTCP for taping)
- Lead-free terminations

Applications

- Reference signal oscillators for microprocessors (household electronics, OA equipment).
- Reference signal oscillators for remote controls (TVs, VCRs, air-conditioners, CD players, lighting).
- Digital applications equipment including measuring instruments, communications equipment, toys, etc.

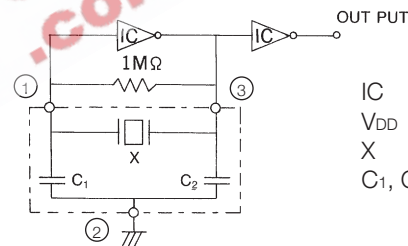
Dimensions



Unit: mm

Test Circuit

Oscillating frequency test circuit



IC : 1/6 μ PD4069UBC
 V_{DD} : +5V
 X : Ceramic element
 C_1 , C_2 : Built-in Capacitor

STANDARD RESONATORS SELECTION GUIDE

TYPE CRHTC/CRHTCP (MHz band with built-in capacitors)

| TOKO Part Number | Oscillating* Frequency (Fosc) | Resonance Impedance (Ω) | Fosc Static Temp. Stability ($-20^{\circ}\text{C}\sim+80^{\circ}\text{C}$) | External Capacitor C_1 (pF) | C_2 (pF) | Note |
|------------------|-------------------------------|----------------------------------|--|-------------------------------|------------|----------|
| DCRHTC3.58 | 3.58MHz \pm 0.5% | 30 max. | \pm 0.3% | Built-in | Built-in | |
| DCRHTC4.00 | 4.00MHz \pm 0.5% | 30 max. | \pm 0.3% | Built-in | Built-in | |
| DCRHTC4.19 | 4.19MHz \pm 0.5% | 30 max. | \pm 0.3% | Built-in | Built-in | |
| DCRHTC5.00 | 5.00MHz \pm 0.5% | 25 max. | \pm 0.3% | Built-in | Built-in | |
| DCRHTC6.00 | 6.00MHz \pm 0.5% | 25 max. | \pm 0.3% | Built-in | Built-in | |
| T1ZCRHTC3.58-AG | 3.5795 | 30 max. | \pm 0.3% | Built-in | Built-in | D.T.M.F. |
| T1ZCRHTC4.19-AF | 4.1943 | 30 max. | \pm 0.3% | Built-in | Built-in | D.T.M.F. |

* Oscillating frequency tolerance can be designed to desired level. TOKO performs matching evaluations for all types of ICs. Please contact TOKO regarding applicable products.



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