

### 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

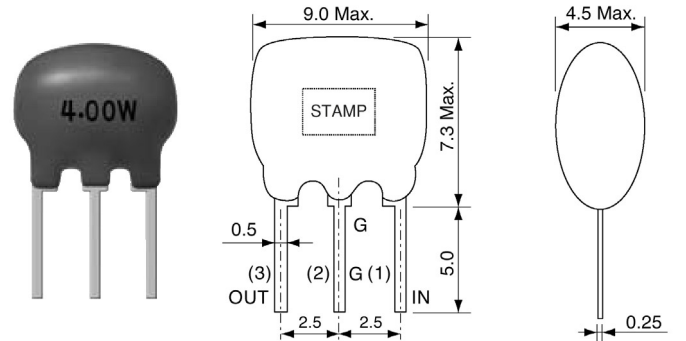
### Features

- 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.

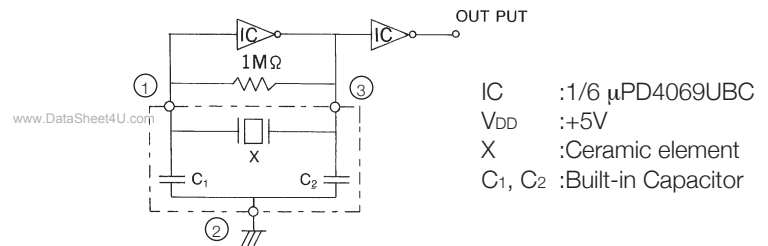
### Dimensions



Unit: mm

### Test Circuit

#### Oscillating frequency test circuit



## STANDARD RESONATORS SELECTION GUIDE

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

TOKO Part Number	Oscillating* Frequency (Fosc)	Resonance Impedance ( $\Omega$ )	Fosc Static Temp. Stability ( $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$ )	External Capacitor $C_1$ (pF)	External Capacitor $C_2$ (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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