

### **CERAMIC RESONATORS**

# **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

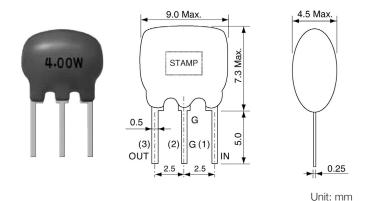
#### **Features**

- Precise oscillating frequency without adjustment.
- Load capacitors (C<sub>1</sub>, C<sub>2</sub>) built-in
- May be used with a variety of ICs.
- Available on tape and reel (CRHTCP for taping)
- Lead-free terminations

# **Applications**

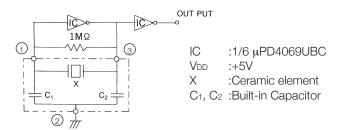
- Reference signal oscillators for microprocessors (household electronics, OA equipment).
- Reference signal oscillators for remote controls (TVs, VCRs, air-conditioners, CD players, lighting).
- Digital applications equipment including measuring instruments, communications equipment, toys, etc.

## **Dimensions**



#### **Test Circuit**

### Oscillating frequency test circuit



#### STANDARD RESONATORS SELECTION GUIDE

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

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TOKO Part Number	Oscillating* Frequency (Fosc)	Resonance Impedance (Ω)	Fosc Static Temp. Stability (-20°C~+80°C)	Externa C <sub>1</sub> (pF)	l Capacitor C <sub>2</sub> (pF)	Note
DCRHTC3.58	3.58MHz±0.5%	30 max.	±0.3%	Built-in	Built-in	
DCRHTC4.00	4.00MHz±0.5%	30 max.	±0.3%	Built-in	Built-in	
DCRHTC4.19	4.19MHz±0.5%	30 max.	±0.3%	Built-in	Built-in	
DCRHTC5.00	5.00MHz±0.5%	25 max.	±0.3%	Built-in	Built-in	
DCRHTC6.00	6.00MHz±0.5%	25 max.	±0.3%	Built-in	Built-in	
T1ZCRHTC3.58-AG	3.5795	30 max.	±0.3%	Built-in	Built-in	D.T.M.F.
T1ZCRHTC4.19-AF	4.1943	30 max.	±0.3%	Built-in	Built-in	D.T.M.F.

<sup>\*</sup> 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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