

# SPECIFICATION OF CERAMIC RESONATOR

## CRB1.0M

### 1 . SCOPE

This specification shall cover the characteristics of the ceramic resonator with 1.0M KHz.

2 . SPECIFICATION                    No. : DL023

3 . PART                                No. : CRB1.0M

### 4 . ELECTRICAL SPECIFICATION

4.1 Oscillation Frequency (Fosc) :  $1.0M \pm 1KHz$

4.2 Resonant Impedance(Ro) :  $50\Omega$  max.

4.3 Capacitance (Co) :  $75 PF \pm 20\%$

#### 4.4 Temperature Characteristics

of Oscillation Frequency :  $\pm 0.3\%$  max.(-20°C to +80°C)

4.5 Rated Voltage : 50 V DC max.

4.6 Maximum Input Voltage : 15 Vp-p

4.7 Insulation Resistance : 1000 M $\Omega$  min.

#### 5. Environmental Specification :

5.1 Lead Pull : 1KG load Terminal Direction Min.

5.2 Vibration : 600-3300rpm.1.5mm.x.y& z axes.1H Each Min.

5.3 Shock : Random Drop,30cm High Concrete Floor

5.4 Solderability : Dipping Terminals Into Molten Solder at  
 $230 \pm 5^\circ C$  At  $5 \pm 0.5$  Sec.

#### 5.5 Resistance to

Soldering Heat : Dipping Lead Terminals No Close Than 2mm  
From the Sn  $350 \pm 10^\circ C$  3 Sec.  
After 1H to Test

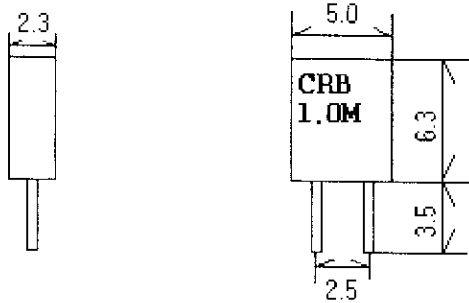
5.6 Heat Resistance : Keep In  $40 \pm 2^\circ C$  Temp 90% Humidity For 100H  
After 1H To Test.

5.7 Operation Temperature :  $-20^\circ C$  to  $+80^\circ C$

5.8 Storage Temperature :  $-40^\circ C$  to  $+85^\circ C$

5.9 Aging Rate : Fosc  $\pm 0.5\%$  max.

6. Dimensions (mm)



7. Test circuit

