

Using breakthrough technology,  
we aim for products that will create new markets.

## New Product News

Low Profile Smaller Size

## Low Profile, Smaller Size



### Ceramic Resonators

#### Chip Type Ceramic Resonators (EFOSS Type)

Industry/Field: AV, OA / Information, Mobile Communication,  
Home appliances, Optical equipment, Amusement

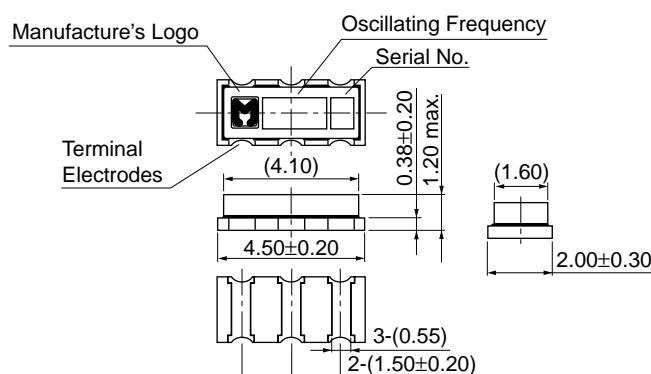
#### • Development Target:

Miniaturizing for high density circuit design

#### • Features:

- ① Miniature Type (36 % : Square measure ratio compared with our current products)
- ② Oscillation Frequency Range : 4 to 8 MHz
- ③ Temperature Characteristics :  $\pm 0.2\%$  ( $-20$  to  $80\text{ }^{\circ}\text{C}$ )

#### • Construction:



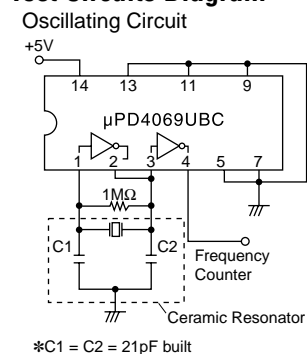
#### • Characteristics/specifications:

Item	Characteristics / Specifications
Oscillation Frequency Range	4 to 8MHz
Oscillation Frequency Tolerance	$\pm 0.5\%$ , $\pm 0.3\%$
Temperature Characteristics	Maximum frequency drift : $\pm 0.2\%$ , $-20^{\circ}\text{C}$ to $80^{\circ}\text{C}$
Dimensions	$4.5 \times 2.0 \times 1.2\text{mm}$

#### • Applications/usage examples:

- Clock generator for microprocessors in AV Instruments
- Amusements Instruments, etc.

#### Test Circuits Diagram



#### • Explanation of part numbers:

