

## Introduction

Tokin is proud to present our new multilayer ceramic capacitor, which is Reflow type, featuring a lower profile and "chip-type" configuration designed especially for surface mounting. Tokin's own high-dielectric-constant ceramic materials give these components remarkably high capacitance for their size. They're perfect for making smaller instruments, computers and electronic equipment.

## Features

- Small size, high capacitance
- High reliability and long life
- Excellent frequency characteristics
- Humidity-proof
- Automatic mounting available for PC boards

## New Multilayer Ceramic Capacitor

		10 $\mu$ F/25V		22 $\mu$ F/25V	
		Dimensions (mm)	Case Code	Dimensions (mm)	Case Code
New	Y5U	2.7×5.7×2.5	C205M C205F	5.0×5.7×2.5	C505F
	Y5U	6.3×10.0×3.0	C610F	—	—
Conventional	Y5V	4.0×8.0×2.5	C408F	6.3×10.0×3.0	C610F

## Characteristics

Electrostatic Capacity	Temperature Characteristic Series					
	Y5U (Z5U)			Y5V		
	25V	50V	75V	25V	50V	75V
10 $\mu$ F	IE106ZY5U-C205M <sup>*1</sup> IE106ZY5U-C205F <sup>*1</sup>	IH106ZY5U-C505F <sup>*1</sup>	IN106ZY5U-C610F <sup>*1</sup>	IE106Z5V-C408F	IH106ZY5V-C610F	IN106ZY5V-C812F
15 $\mu$ F	IE156ZY5U-C505F <sup>*1</sup>	IH156ZY5U-C610F <sup>*1</sup>	—	IE156ZY5V-C610F	IH156ZY5V-C812F	—
22 $\mu$ F	IE226ZY5U-C505F	IH226ZY5U-C610F <sup>*1</sup>	—	IE226ZY5V-C610F	IH226ZY5V-C812F	—
33 $\mu$ F	IE336ZY5U-C610F <sup>*1</sup>	IH336ZY5U-C812F <sup>*2</sup>	—	IE336ZY5V-C610F	—	—
47 $\mu$ F	IE476ZY5U-C812F <sup>*2</sup>	—	—	IE476ZY5V-C610F	—	—
100 $\mu$ F	—	—	—	IE107ZY5V-C812F	—	—

<sup>\*1</sup>New product    <sup>\*2</sup>The product is in the experimental stage.

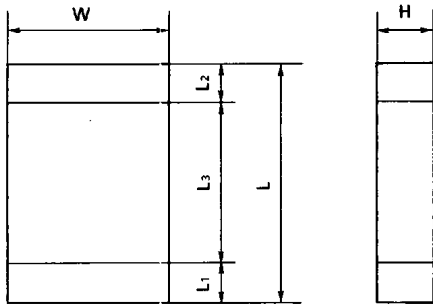
## Ceramic Capacitor End Termination

Nickel/Tin Plate Termination <sup>*1</sup>	IE106ZY5U-C205M
Fired-on End Termination	All Case Code

<sup>\*1</sup>New product.

# CHIP-TYPE HIGH-CAPACITANCE MULTILAYER CERAMIC CAPACITOR

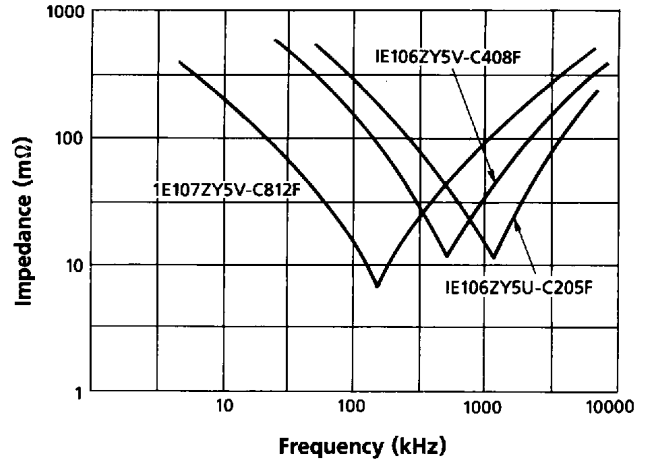
## Shape and Dimensions



	W	L	H	L <sub>1</sub> , L <sub>2</sub>	L <sub>3</sub>
C205 (SD)	2.7±0.3	5.7±0.4	2.5 max.	0.3~2.5	0.3 min.
C505 (SE)	5.0±0.4	5.7±0.5	3.0 max.	0.3~2.5	0.3 min.
C408 (SA)	4.0±0.4	8.0±0.5	3.2 max.	0.3~2.5	0.3 min.
C610 (SB)	6.3±0.4	10.0±0.5	4.5 max.	0.3~2.5	0.3 min.
C812 (SC)	8.0±0.4	12.5±0.5	4.5 max.	0.3~2.5	0.3 min.

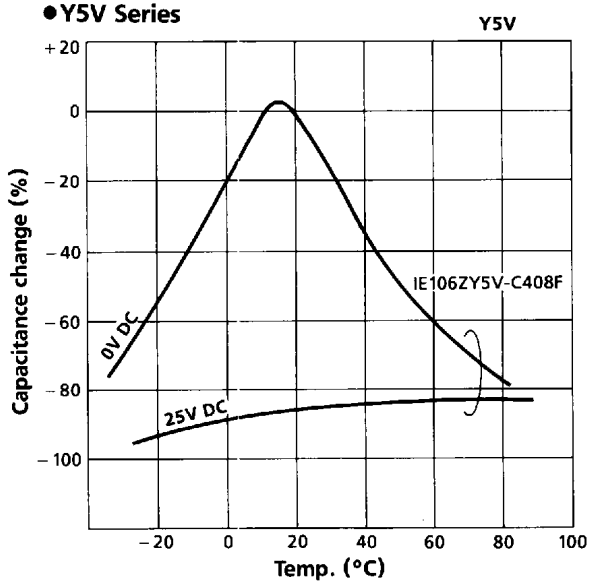
## Frequency Characteristics

### ●Y5U (Z5U), Y5V Series

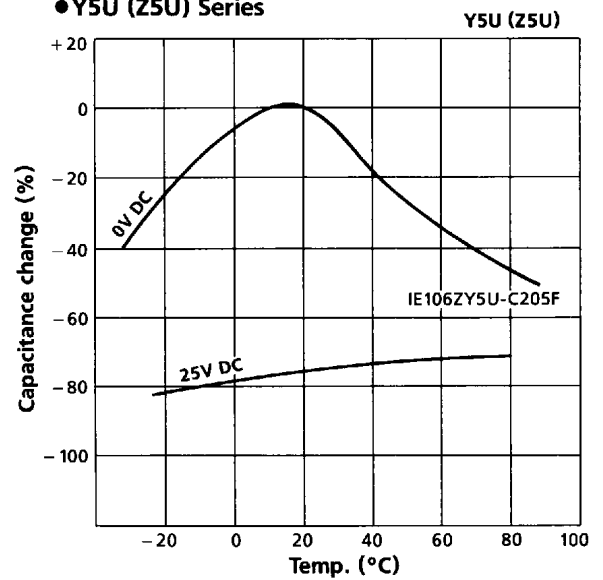


## Stability at Low and High Temperature

### ●Y5V Series



### ●Y5U (Z5U) Series



Specifications are subject to change without notice.

# TOKIN

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