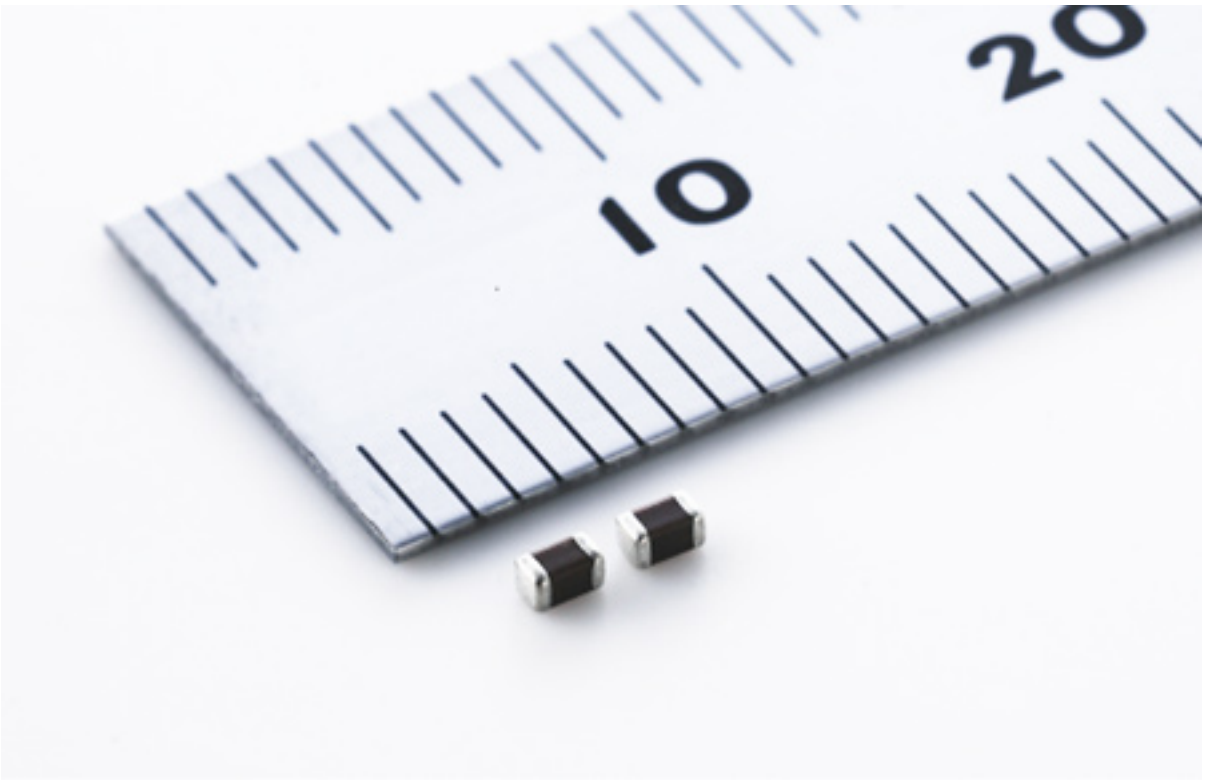
Murata has developed the world's Smallest 1.6 & times;0.8mm Size 10 & mu;F Monolithic Ceramic Capacitor Rated at 25V

Murata Manufacturing



Overview

Murata Manufacturing Co., Ltd. has accomplished the design and development of a 1.6×0.8mm Size 10µF monolithic ceramic capacitor, the world's smallest, at a 25V rating. This model, reduced by approximately 60% in volume than the previous model, further contributes to equipment downsizing. Additionally, its capacitance is significantly improved by10 times the previous model with the same size, rated voltage and temperature characteristics.

Background

As notebook PCs, LCD-TVs and mobile phones permeate the market and become smaller, needs for high rated voltage, small and high-capacitance monolithic ceramic capacitors for LED backlight of LCD-TVs and mobile phone displays are in greater demands.

We have succeeded in commercializing the 1.6×0.8mm Size 25 V 10µF monolithic ceramic capacitor by refining and high-crystallizing ceramic material with our own material technology securing high reliability.

Muratas product development will allow continued contribution to downsizing of electronic equipment.

Features

World's smallest size for a 10µF model rated at 25V

Applications

- Notebook PCs
- LED backlight for LCD-TVs
- Mobile terminal displays

etc.

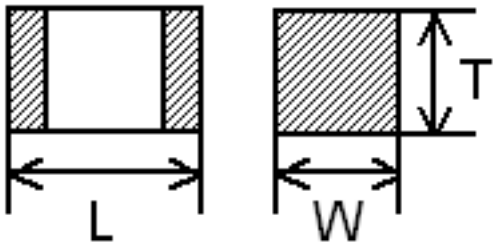
Part Number

GRM188R61E106M

Electric characteristic

Capacitance: 10µF
Rated voltage: 25V
Operating temperature range: -55^+85
Temperature characteristics: X5R characteristic (rate of change in capacitance=within ±15%)

External Size



L=1.6±0.2W=0.8±0.2T=0.8±0.2 (Unit: mm)

Production

Production commences on April 2010

Sample Price

20 Yen/per unit
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