

# GCM188R71H102KA37#

# at the end indicates the package specification code.

● In Production

Chip Multilayer Ceramic Capacitors for Automotive Powertrain/Safety Equipment

**GCM188R71H102KA37#**

“#” at the end indicates the package specification code.



GCM188R71H102KA37D,GCM188R71H102KA37J,GCM188R71H102KA37V,GCM188R71H102KA37W

## Applications

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications | Please be sure to read and comply with these " <a href="#">Precautions for use</a> ".                                                                                                                                                                                                                                                                                                                                             |
| Specific Applications   | <u>Automotive infotainment/comfort equipment, Automotive powertrain/safety equipment, Medical equipment [GHTF A/B/C] except for implant equipment</u><br><br>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product. |

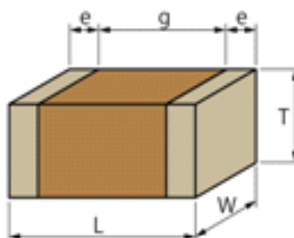
### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications.  
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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0.47µF ±5% indicates the package specification code.

## Appearance & Shape



|                          |              |
|--------------------------|--------------|
| Chip size code (mm/inch) | 1608M/0603   |
| Length                   | 1.6mm ±0.1mm |
| Width                    | 0.8mm ±0.1mm |
| Thickness                | 0.8mm ±0.1mm |
| External terminal size   | 0.2 ~ 0.5mm  |

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# GCM188R71H102KA37#

0.42# at the end indicates the package specification code.

## Specifications

|                                                 |     |
|-------------------------------------------------|-----|
| Temperature characteristics (complied standard) | EIA |
| Temperature characteristics                     | X7R |

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|                                                  |             |
|--------------------------------------------------|-------------|
| Temperature range of temperature characteristics | -55 ~ 125°C |
| Operating Temperature                            | -55 ~ 125°C |
| Capacitance                                      | 1,000pF     |
| Tolerance of capacitance                         | ±10%        |
| Rated Voltage DC                                 | 50Vdc       |

## References

| Packaging | Specifications  | Standard Packing Quantity |
|-----------|--------------------------------------------------------------------------------------------------|---------------------------|
| D         | φ180mm Reel W8P4* Paper Tape                                                                     | 4000                      |
| J         | φ330mm Reel W8P4* Paper Tape                                                                     | 10000                     |
| V         | φ330mm Reel W8P2* Paper Tape                                                                     | 30000                     |
| W         | φ180mm Reel W8P2* Paper Tape                                                                     | 8000                      |

| Mass(Typ.) |       |
|------------|-------|
| 1 piece    | 6.3mg |

### Attention

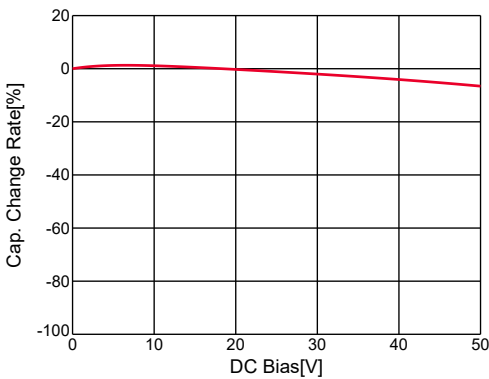
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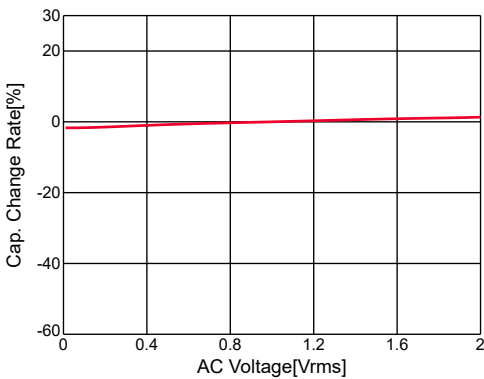
Basic

C-DC bias(Cap Change)



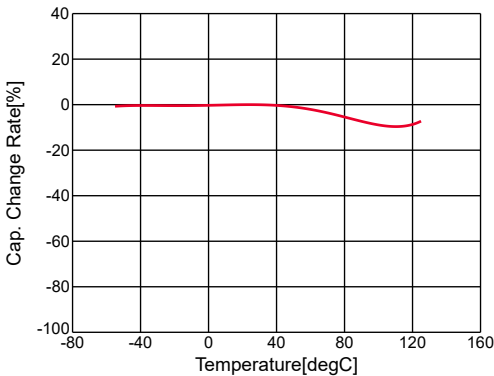
GCM188R71H102KA37#,C-DC bias,capchange,  
25.0degC, AC1.0Vrms

C-AC voltage(Cap Change)



GCM188R71H102KA37#,C-AC Voltage,capchange,  
DC0V, 25.0degC

C-Temp.(Cap Change)



GCM188R71H102KA37#,C-Temp.,capchange, DC0.0V,  
AC1.0Vrms

Attention

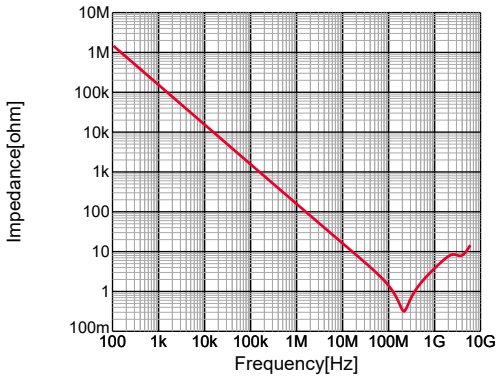
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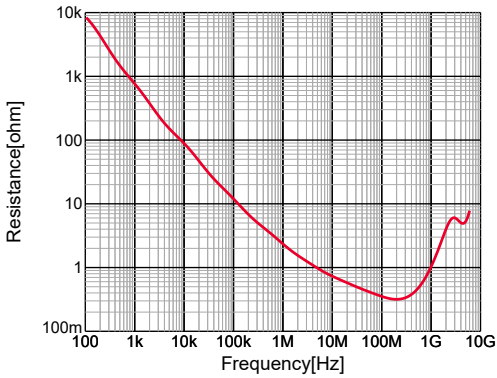
## Frequency Characteristic

|Z|



GCM188R71H102KA37# ,|Z|,DC0V,25degC

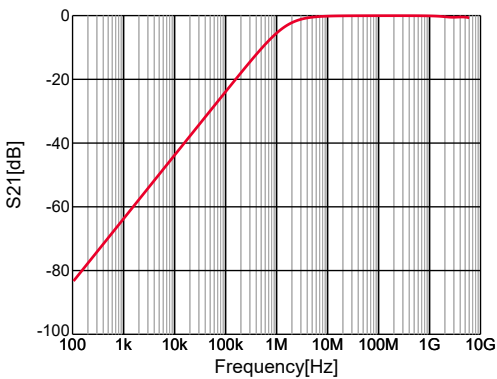
R



GCM188R71H102KA37# ,R,DC0V,25degC

## S-parameter

S21



GCM188R71H102KA37# ,S21,DC0V,25degC,series

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