

# GRM033R61A224KE90#

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



## < List of part numbers with package codes >

GRM033R61A224KE90D      GRM033R61A224KE90W      GRM033R61A224KE90J  
GRM033R61A224KE90V

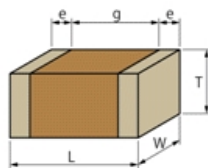
## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment, Industrial Equipment, Mobile Electronics, Medical equipment [GHTF A/B/C] except for implant equipment, Automotive infotainment/comfort equipment 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.

## Notices

Derating1

## Appearance & Shape



## References

Packaging	Specifications	Standard Packing Quantity
D	φ180mm Reel Paper Tape	15000
W	φ180mm Reel W8P1 Paper Tape	30000
J	φ330mm Reel Paper Tape	50000
V	φ330mm Reel W8P1 Paper Tape	150000

Mass (typ.)	
1 piece	0.33mg

### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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## Specifications

Length	0.6±0.03mm
Width	0.3±0.03mm
Thickness	0.3±0.03mm
Capacitance	0.22μF ±10%
Distance between external terminals g	0.2mm min.
External terminal size e	0.1 to 0.2mm
Operating Temperature Range	-55°C to 85°C
Rated Voltage	10Vdc
Size code in inch(mm)	0201 (0603M)
Capacitance change rate	±15.0%
Temperature characteristics (complied standard)	X5R(EIA)
Temperature range of temperature characteristics	-55°C to 85°C

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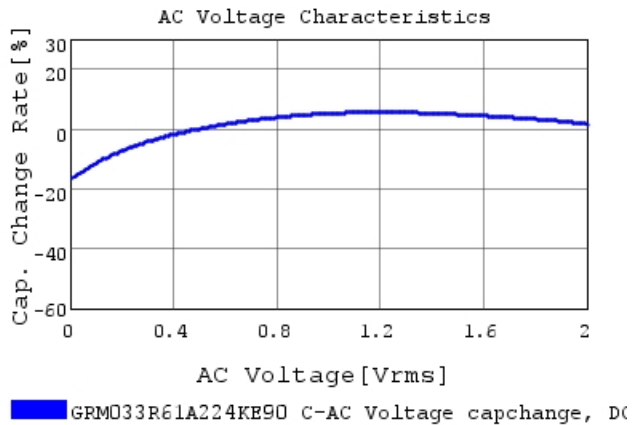
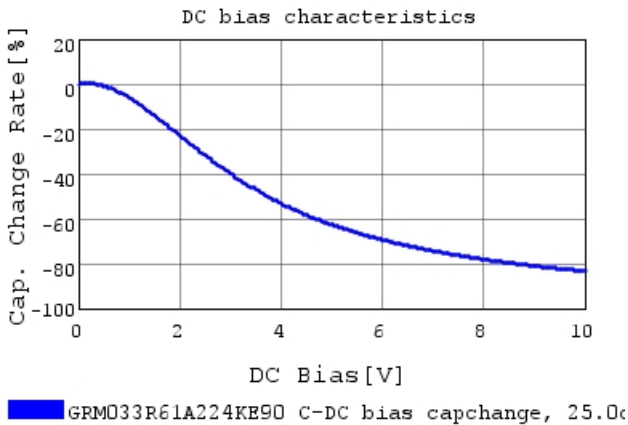
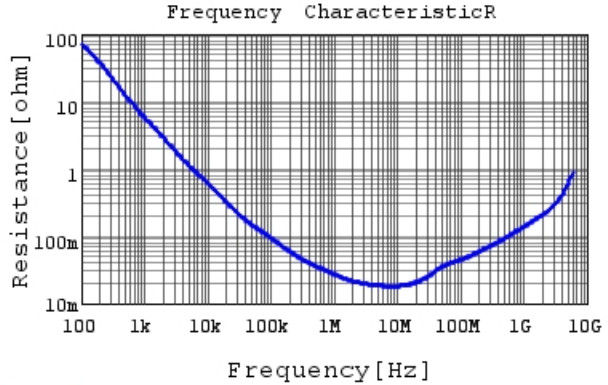
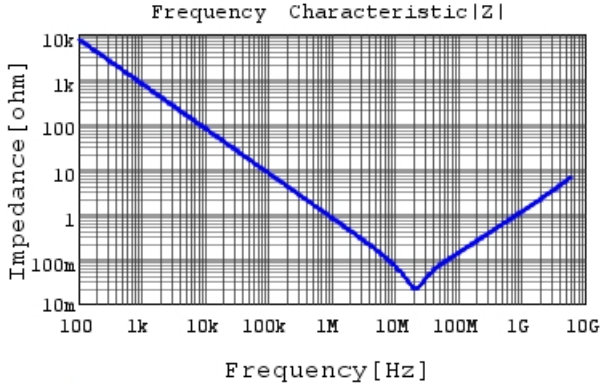
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## Characteristic Data

The charts below may show another part number which shares its characteristics.

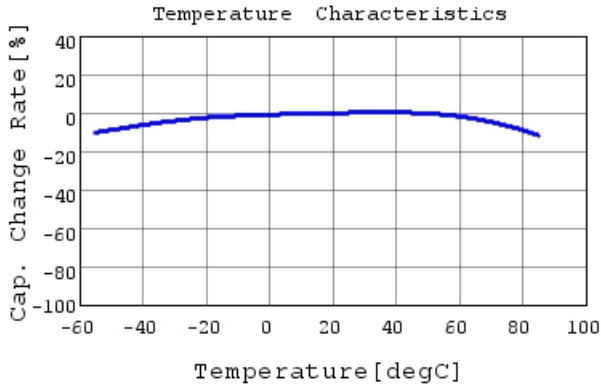


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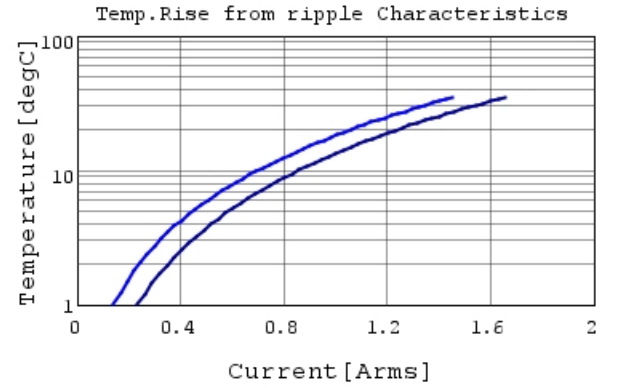
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GRM033R61A224KE90 C-Temp. capchange, DC0.0V,



GRM033R61A224KE90 Temp.rise — 600kHz —

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