

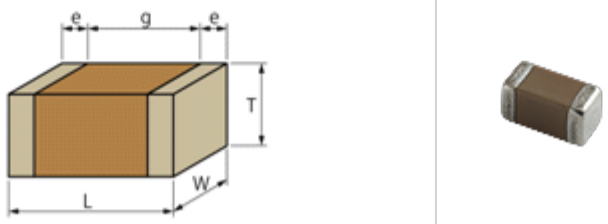
# GRM188R61A106KE69#

" # " indicates a package specification code.

Available   Complies with RoHS 

< List of part numbers with package codes >  
 GRM188R61A106KE69D , GRM188R61A106KE69J , GRM188R61A106KE69B

## Shape



|  |               |
|--|---------------|
| L size                                       | 1.6 ± 0.15mm  |
| W size                                       | 0.8 ± 0.15mm  |
| T size                                       | 0.8 ± 0.15mm  |
| External terminal width e                    | 0.2 to 0.55mm |
| Distance between external terminals g (Min.) | 0.6mm         |
| Size code in mm(inch)                        | 1608 (0603)   |

## Notes

Volt. & temp. derating recommended product

## References

| Packaging | Specifications      | Minimum quantity |
|-----------|---------------------|------------------|
| D         | Paper tape ( 180mm) | 4000             |
| J         | Paper tape ( 330mm) | 10000            |
| B         | Packing in bulk     | 1000             |

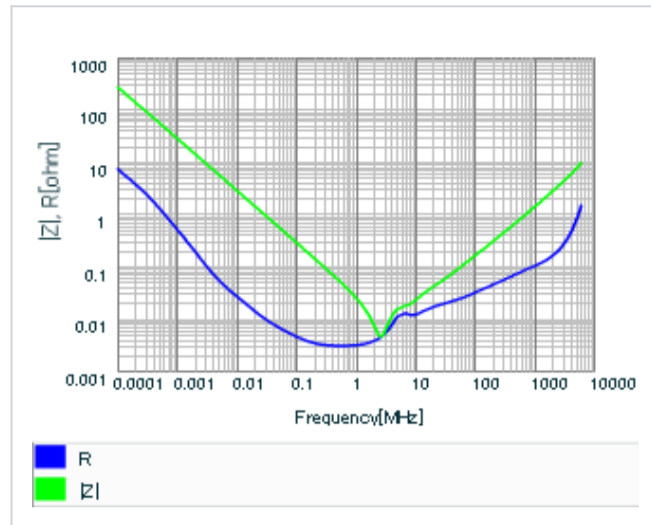
## Specifications

|  |            |
|--|------------|
| Capacitance                                      | 10µF ± 10% |
| Rated voltage                                    | 10Vdc      |
| Temperature characteristics (complied standard)  | X5R(EIA)   |
| Capacitance change rate                          | ± 15.0%    |
| Temperature range of temperature characteristics | -55 to 85  |
| Operating temperature range                      | -55 to 85  |

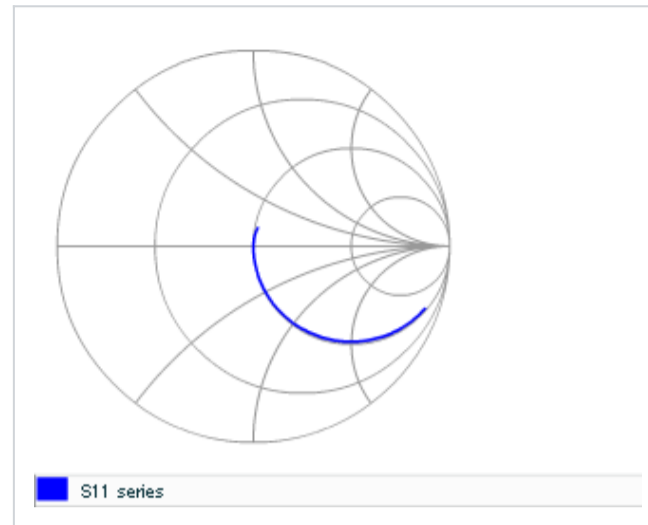
### Attention

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- 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.

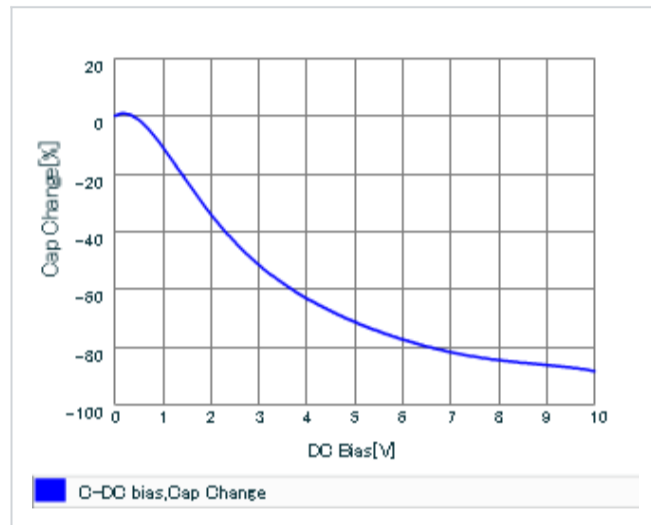
▪ Frequency characteristics (ESR, Impedance)



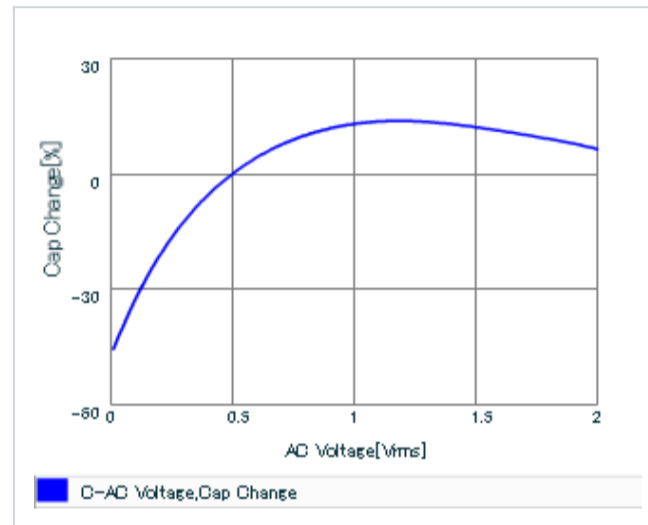
▪ S parameter (Smith chart S11)



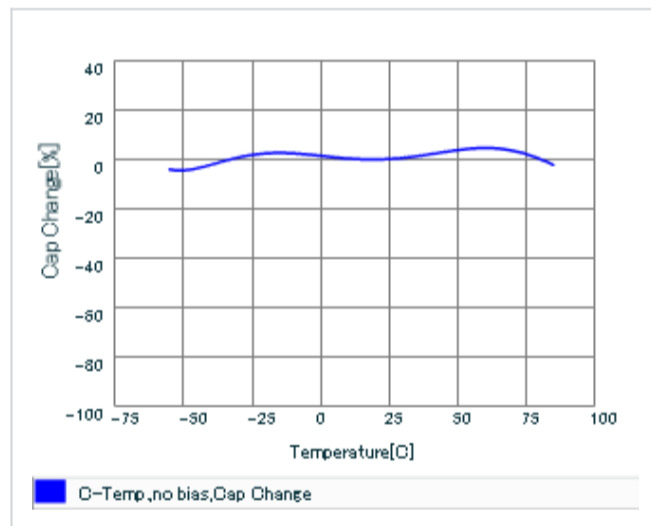
▪ DC bias characteristics



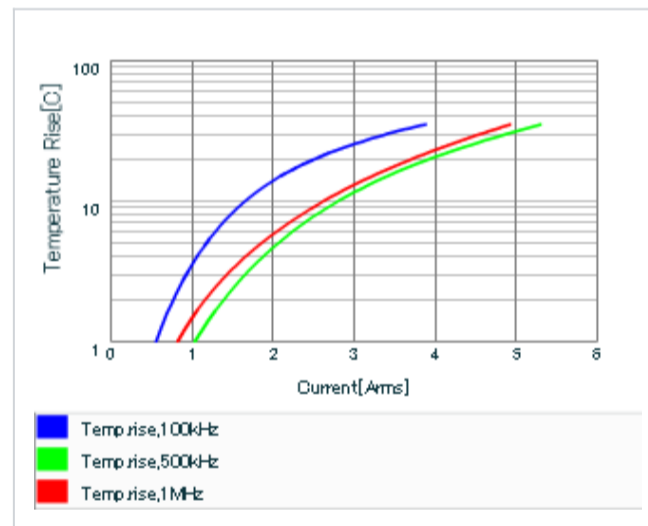
▪ AC voltage characteristics



▪ Capacitance - temperature characteristics



▪ Calorific property by ripple current



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