

GRM188R71E224KA88#

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

● In Production

Chip Multilayer Ceramic Capacitors for Consumer Electronics & Industrial Equipment

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GRM188R71E224KA88D,GRM188R71E224KA88J,GRM188R71E224KA88V,GRM188R71E224KA88W

Applications

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

Temperature characteristics (complied standard)	EIA
Temperature characteristics	X7R
Temperature range of temperature characteristics	-55 ~ 125°C
Operating Temperature	-55 ~ 125°C
Capacitance	0.22μF
Tolerance of capacitance	±10%
Rated Voltage DC	25Vdc

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

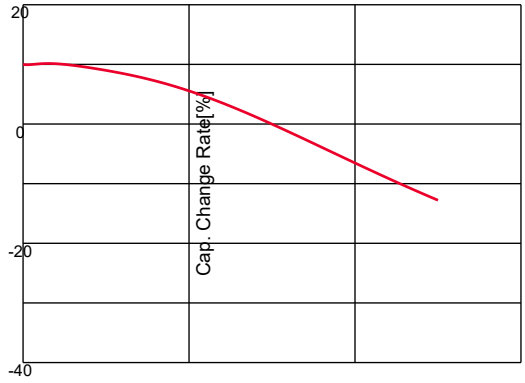
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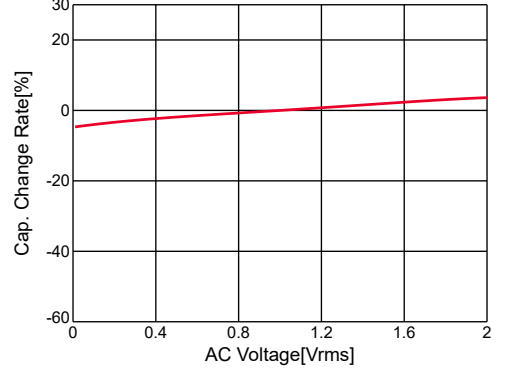
Basic

C-DC bias(Cap Change)



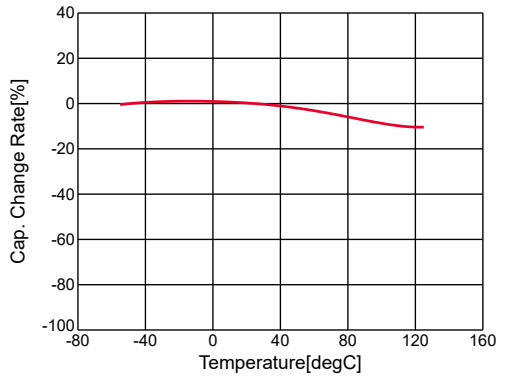
GRM188R71E224KA88#,C-DC bias,capchange, 25.0degC, AC1.0Vrms

C-AC voltage(Cap Change)



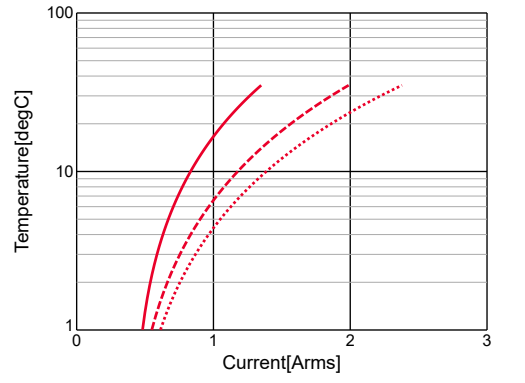
GRM188R71E224KA88#,C-AC Voltage,capchange, DC0V, 25.0degC

C-Temp.(Cap Change)



GRM188R71E224KA88#,C-Temp.,capchange, DC0.0V, AC1.0Vrms

Temp.rise



GRM188R71E224KA88#,Temp.rise

- 300kHz
- 600kHz
- 1MHz

Attention

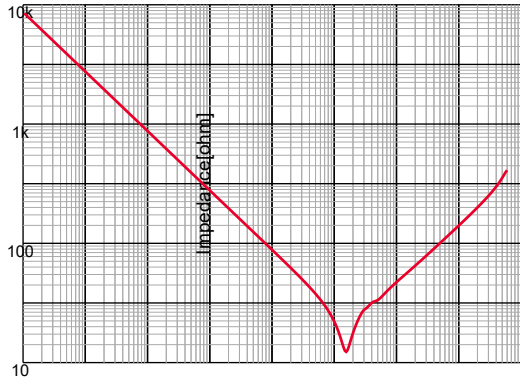
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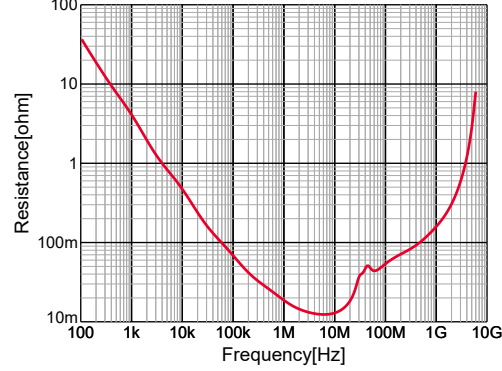
Frequency Characteristic

|Z|



GRM188R71E224KA88#,|Z|,DC0V,25degC

R



GRM188R71E224KA88#,R,DC0V,25degC

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