

## Excellent Integrated System Limited

Stocking Distributor

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[Murata Electronics North America](#)

[NFM31HK103R1H3L](#)

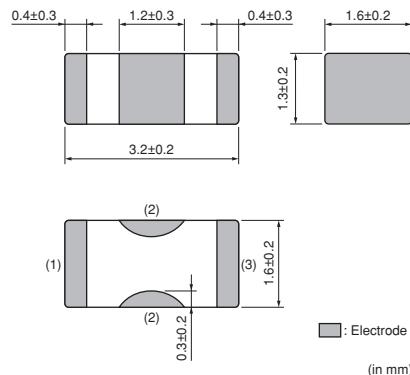
For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

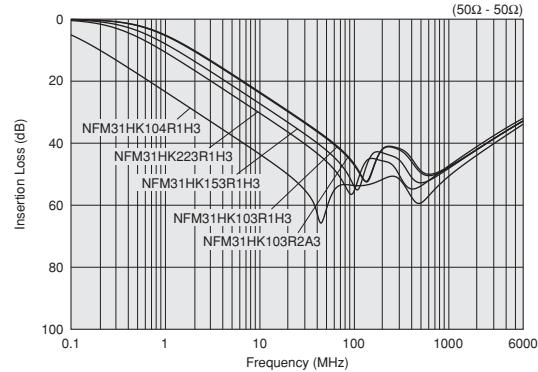
# For Automotive EMIFIL® (Capacitor type) for Automotive

## NFM31H Series (1206 Size)

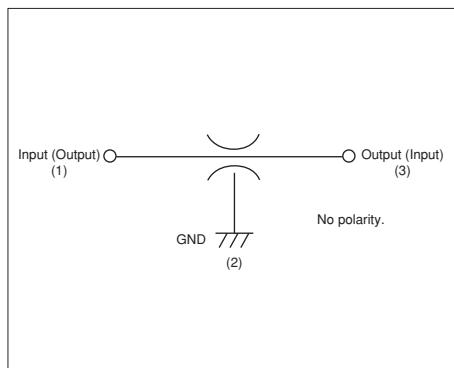
### ■ Dimensions



### ■ Insertion Loss Characteristics (Main Items)



### ■ Equivalent Circuit



### ■ Packaging

Code	Packaging	Minimum Quantity
L	180mm Embossed Tape	3000
B	Bulk(Bag)	500

### ■ Rated Value (□: packaging code)

Part Number	Capacitance	Rated Current	Rated Voltage	Insulation Resistance (min.)	Operating Temperature Range
NFM31HK103R1H3□	10000pF ±20%	10A	50Vdc	1000M ohm	-55 to +125°C
NFM31HK103R2A3□	10000pF ±20%	10A	100Vdc	1000M ohm	-55 to +125°C
NFM31HK153R1H3□	15000pF ±20%	10A	50Vdc	1000M ohm	-55 to +125°C
NFM31HK223R1H3□	22000pF ±20%	10A	50Vdc	1000M ohm	-55 to +125°C
NFM31HK104R1H3□	100000pF ±20%	6A	50Vdc	1000M ohm	-55 to +125°C

Number of Circuit: 1

Continued on the following page.

● This data sheet is applied for CHIP EMIFIL® used for Automotive Electronics equipment for your design.

### ⚠ Note:

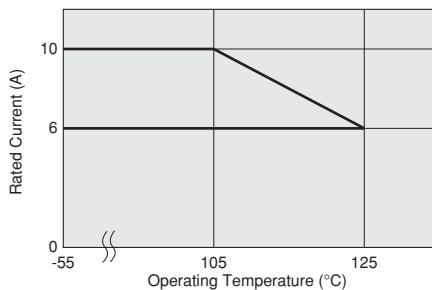
1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, its specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet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

Continued from the preceding page.

## ■ Derating of Rated Current

When NFM31H series is used in operating temperatures exceeding +105°C, derating of current is necessary. Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



## ■ Caution/Notice

### Caution (Rating)

1. Do not use products beyond the rated current and rated voltage as this may create excessive heat and deteriorate the insulation resistance.
2. Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure our product.

### Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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