

# NFE31PT221D1E9#

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



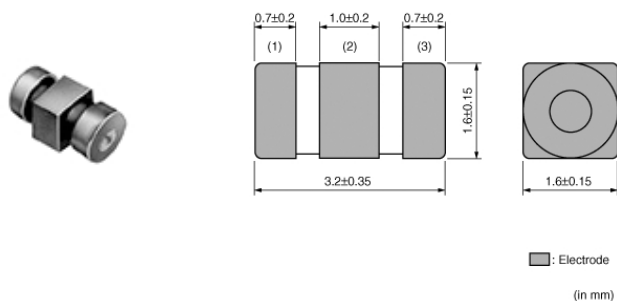
## < List of part numbers with package codes >

NFE31PT221D1E9B      NFE31PT221D1E9K      NFE31PT221D1E9L

## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                   |
| Specific Applications    | Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy equipment<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. |
| Recommended Applications | Consumer equipment                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Appearance & Shape



## Packaging Information

| Packaging | Specifications      | Standard Packing Quantity |
|-----------|---------------------|---------------------------|
| B         | Bulk(Bag)           | 500                       |
| K         | 330mm Embossed Tape | 8000                      |
| L         | 180mm Embossed Tape | 2000                      |

## Features

The chip "EMIFIL" NFE31PT is a small size T-type circuit EMI suppression filter.

### Features

1. Its large rated current of 6A and low voltage drop due to small DC resistance are suitable for DC power line use.
2. The feedthrough capacitor realizes excellent high frequency characteristics.
3. The structure incorporates built-in ferrite beads which minimize resonance with surrounding circuits.
4. 22 to 2,200pF lineups can be used in signal lines.

### Attention

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 review our product specifications or consult the approval sheet for product specifications before ordering.

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## Specifications

|                             |               |
|-----------------------------|---------------|
| Shape                       | SMD           |
| Size Code (in inch)         | 1206          |
| Length                      | 3.2mm         |
| Length Tolerance            | ±0.35mm       |
| Width                       | 1.6mm         |
| Width Tolerance             | ±0.15mm       |
| Thickness                   | 1.6mm         |
| Thickness Tolerance         | ±0.15mm       |
| Operating Temperature Range | -40°C to 85°C |
| Mass(typ.)                  | 0.034g        |
| Number of Circuit           | 1             |
| Rated Current               | 6A            |
| Rated Voltage               | 25Vdc         |
| Withstanding Voltage        | 62.5Vdc       |
| Insulation Resistance(min.) | 1000MΩ        |
| Capacitance                 | 220pF         |
| Capacitance Tolerance       | 50/-20%       |
| Size Code (in mm)           | 3216          |

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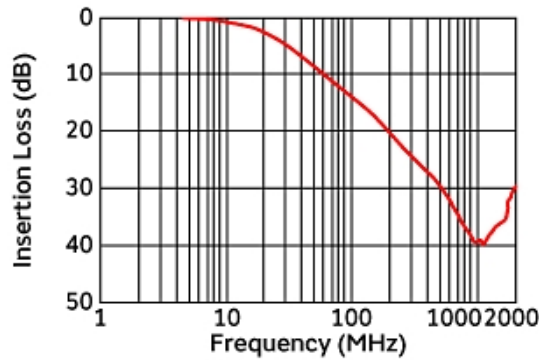
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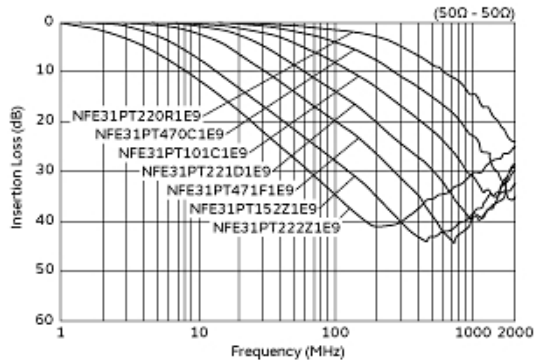
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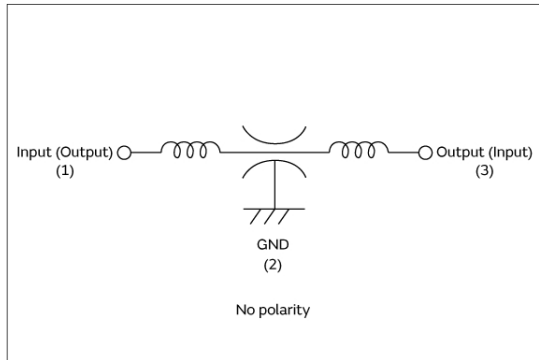
## Product Data



Insertion Loss Characteristics



Insertion Loss Characteristics (Main Items)



Equivalent Circuit

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