

# NFL21SP106X1C3#

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

Discontinued

RoHS

REACH

< List of part numbers with package codes >  
NFL21SP106X1C3B      NFL21SP106X1C3D

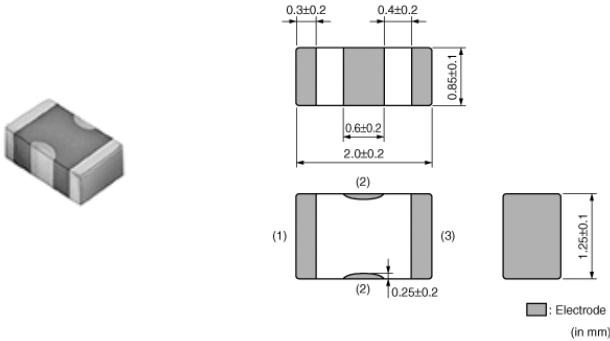
## Applications

|                          |   |
|--------------------------|---|
| 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  |

## Packaging Information

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B         | Bulk(Bag)        | 1000                      |
| D         | 180mm Paper Tape | 4000                      |

## Appearance & Shape



**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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## Features

The chip "EMIFIL" NFL21SP series is a high performance EMI suppression filter in 2.0x1.25mm size for high speed signal lines by using Murata's processing technology.

### Features

1. Suppresses noise with little attenuation of the signal itself due to its steep filtering characteristics.
2. Murata's original internal structure design enables excellent noise suppression up to high frequencies.
3. Available in ten different values of cut-off frequency ranging from 10MHz up to 500MHz.

### Applications

Suppression of high magnitude radiated noise generated by high speed digital circuits such as clock and RGB

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## Specifications

|                             |                |
|-----------------------------|----------------|
| Shape                       | SMD            |
| Size Code (in inch)         | 0805           |
| Length                      | 2.0mm          |
| Length Tolerance            | ±0.2mm         |
| Width                       | 1.25mm         |
| Width Tolerance             | ±0.1mm         |
| Thickness                   | 0.85mm         |
| Thickness Tolerance         | ±0.1mm         |
| Operating Temperature Range | -55°C to 125°C |
| Mass(typ.)                  | 0.009g         |
| Number of Circuit           | 1              |
| Rated Current               | 100mA          |
| Rated Voltage               | 16Vdc          |
| Withstanding Voltage        | 50Vdc          |
| Insulation Resistance(min.) | 1000MΩ         |
| Nominal Cut-off Frequency   | 10MHz          |
| Capacitance                 | 670pF          |
| Capacitance Tolerance       | ±20%           |
| Inductance                  | 680nH          |
| Inductance Tolerance        | ±20%           |
| Size Code (in mm)           | 2012           |

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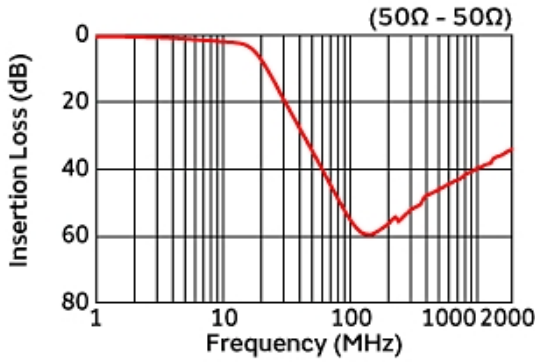
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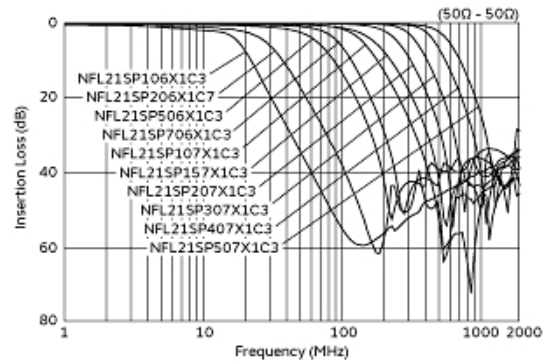
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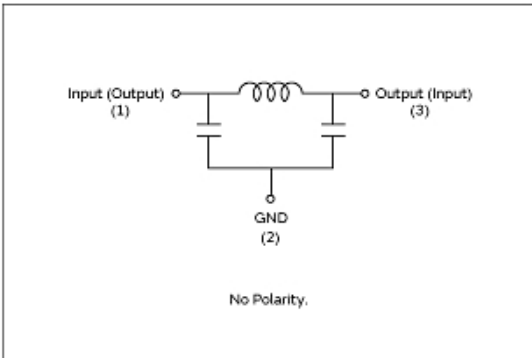
## Product Data



Insertion Loss Characteristics



Insertion Loss Characteristics (Main Items)



Equivalent Circuit

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