

# NFL18ST207X1C3D

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

Discontinued

RoHS

REACH

## < List of part numbers with package codes >

NFL18ST207X1C3B

NFL18ST207X1C3D

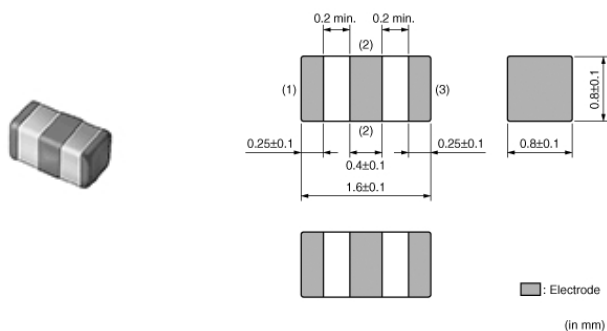
## Applications

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

## Packaging Information

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

## Appearance & Shape



### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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## Features

NFL18ST\_X series is an EMI suppression filter for high speed signal lines, achieving T-type structure with non-magnetic horizontal coils and feed-through capacitor in 1.6x0.8mm size with Murata's multilayer technology, which has good noise suppression effect at the frequency range from 800MHz to several GHz.

### Features (NFL18ST\_X series)

1. Steep insertion loss characteristics realize excellent noise suppression and prevent distortion of signal waveform.
2. By minimizing stray capacitance of inductor, achieves high performance in noise suppression in high frequency range.
3. Three different values of cut-off frequency are available, ranging from 200MHz up to 500MHz.
4. Since all side electrode structures are the same, it is easy to mount.

### Applications

1. Noise suppression for video signal lines (RGB lines) and high speed clock lines
2. EMI suppression at high frequency range (over 800MHz)

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## Specifications

|                             |                |
|-----------------------------|----------------|
| Shape                       | SMD            |
| Size Code (in inch)         | 0603           |
| Length                      | 1.6mm          |
| Length Tolerance            | ±0.1mm         |
| Width                       | 0.8mm          |
| Width Tolerance             | ±0.1mm         |
| Thickness                   | 0.8mm          |
| Thickness Tolerance         | ±0.1mm         |
| Operating Temperature Range | -55°C to 125°C |
| Mass(typ.)                  | 0.004g         |
| Number of Circuit           | 1              |
| Rated Current               | 150mA          |
| Rated Voltage               | 16Vdc          |
| Withstanding Voltage        | 50Vdc          |
| Insulation Resistance(min.) | 1000MΩ         |
| Nominal Cut-off Frequency   | 200MHz         |
| Capacitance                 | 25pF           |
| Capacitance Tolerance       | ±20%           |
| Inductance                  | 110nH          |
| Inductance Tolerance        | ±20%           |
| Size Code (in mm)           | 1608           |

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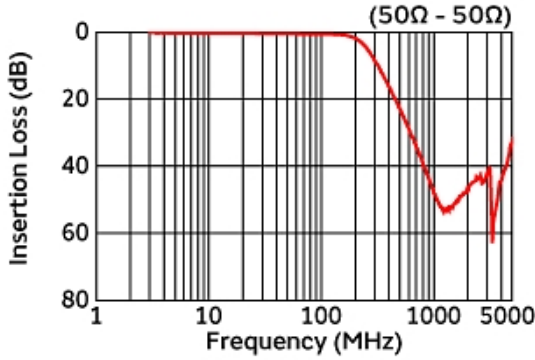
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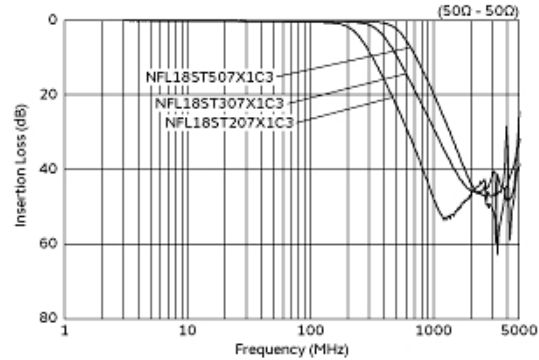
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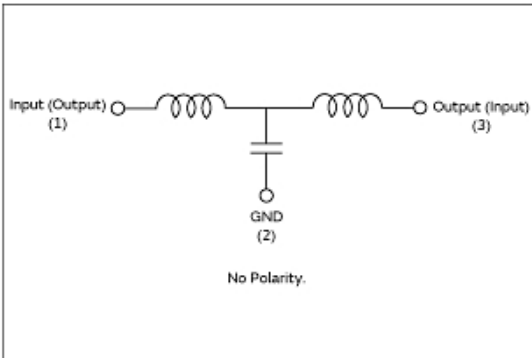
## Product Data



Insertion Loss Characteristics



Insertion Loss Characteristics (Main Items)



Equivalent Circuit

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