

# NFA18SL487V1A45#

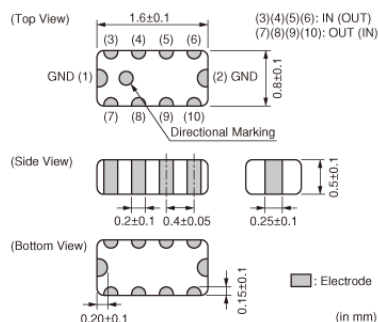
“#” indicates a package specification code.

In Production RoHS REACH

< List of part numbers with package codes >

NFA18SL487V1A45B NFA18SL487V1A45L

## Appearance & Shape



## Applications

Other Usage For general

## Packaging Information

| Packaging | Specifications      | Minimum Order Quantity |
|-----------|---------------------|------------------------|
| B         | Bulk(Bag)           | 1000                   |
| L         | 180mm Embossed Tape | 4000                   |

## Features

### Features

1. NFA18SL series is LC combined EMI filter whose feature is compact size, steep and deep insertion loss curve.
2. [Cutoff frequency 300MHz, 400MHz, 480MHz type]  
Good noise suppression effect at frequency range over 800MHz, which are important to improve sensitivity of mobile phones. This feature enables effective noise suppression at LCD lines or camera module lines. [Cutoff frequency 50MHz, 130MHz, 180MHz, 200MHz type]  
This type also have good performance at UHF band in addition to products mentioned above. This feature is suitable to improve sensitivity of digital TVs.  
[Cutoff frequency 220MHz type]  
This type is improved the performance at frequency range from 800MHz to 3GHz in addition to products mentioned above.  
[Cutoff frequency 350MHz type]  
Reduced capacitance to 4pF typ. This enables low impact to signal waveform and high noise suppression performance.
3. Various cutoff frequency has made to control rise time and fall time of waveform.
4. 4 circuits are installed in compact shape of 1.6x0.8mm. Greatly reduces footprint.

### Application

Noise suppression in LCD lines, camera module lines.

### 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.  
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## Specifications

|                             |                |                |                                                                                |
|-----------------------------|----------------|----------------|--------------------------------------------------------------------------------|
| Shape                       | SMD            | Insertion Loss | 6dB max.(at Cut-off Frequency)<br>15dB min.(at 800MHz)<br>15dB min.(at 900MHz) |
| Size Code (in mm)           | 1608           |                |                                                                                |
| Size Code (in inch)         | 0603           |                |                                                                                |
| Length                      | 1.6mm          |                |                                                                                |
| Length Tolerance            | ±0.1mm         |                |                                                                                |
| Width                       | 0.8mm          |                |                                                                                |
| Width Tolerance             | ±0.1mm         |                |                                                                                |
| Thickness                   | 0.5mm          |                |                                                                                |
| Thickness Tolerance         | ±0.1mm         |                |                                                                                |
| Rated Current               | 100mA          |                |                                                                                |
| Operating Temperature Range | -55°C to 125°C |                |                                                                                |
| Mass(typ.)                  | 0.004g         |                |                                                                                |
| Number of Circuit           | 4              |                |                                                                                |
| Rated Voltage               | 10Vdc          |                |                                                                                |
| Withstanding Voltage        | 30Vdc          |                |                                                                                |
| Insulation Resistance(min.) | 1000MΩ         |                |                                                                                |
| Nominal Cut-off Frequency   | 480MHz         |                |                                                                                |

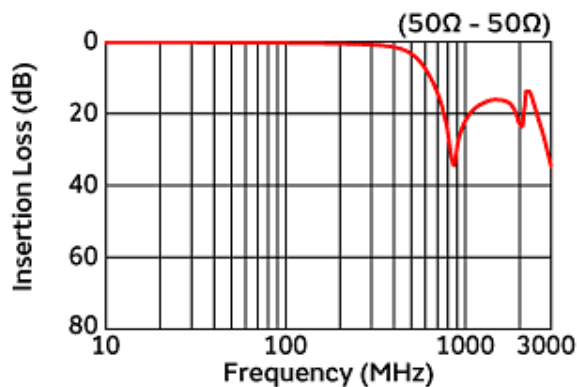
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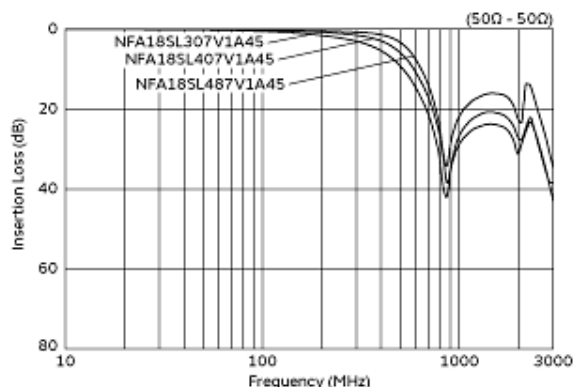
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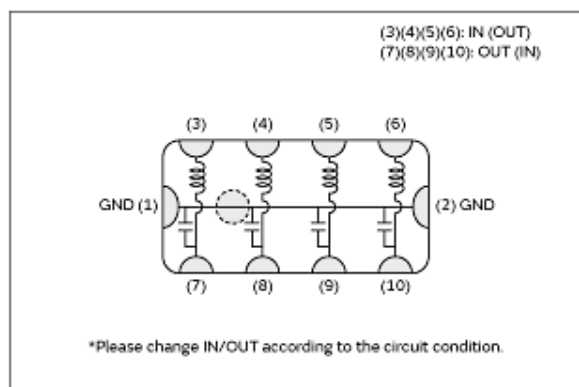
## Product Data



Insertion Loss Characteristics



Insertion Loss Characteristics (Main Items)



Equivalent Circuit

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