

# NFZ18SM121SZ10#

“#” indicates a package specification code.

In Production

RoHS

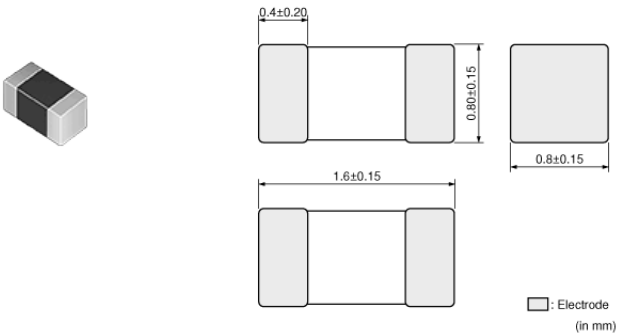
REACH

AEC-Q200

< List of part numbers with package codes >

NFZ18SM121SZ10D NFZ18SM121SZ10B

## Appearance & Shape



## Features

1. NFZ18SM of the audio line of Class D amplifier, etc. It is a noise filter that is designed for radiation noise suppression. By inserting in series with the audio line, thereby deteriorating the audio distortion possible to attenuate the noise component in the vicinity of 100 to 500MHz.
2. The nickel barrier structure of the external electrodes provides excellent solder heat resistance.
3. NFZ18SM series low DC Resistance. Large Current in a small. The Rated Current is the maximum 1.25A.
4. Corresponds to 125 °C maximum use temperature.

## Applications

|                  |              |
|------------------|--------------|
| Automotive Usage | Infotainment |
|------------------|--------------|

## Packaging Information

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

**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.

# NFZ18SM121SZ10#

“#” indicates a package specification code.



## Specifications

|                                 |                |
|---------------------------------|----------------|
| Shape                           | SMD            |
| Size Code (in mm)               | 1608           |
| Size Code (in inch)             | 0603           |
| Length                          | 1.6mm          |
| Length Tolerance                | ±0.15mm        |
| Width                           | 0.8mm          |
| Width Tolerance                 | ±0.15mm        |
| Thickness                       | 0.8mm          |
| Thickness Tolerance             | ±0.15mm        |
| Rated Current                   | 1.25A          |
| Operating Temperature Range     | -55°C to 125°C |
| Mass(typ.)                      | 0.005g         |
| Number of Circuit               | 1              |
| DC Resistance(max.)             | 0.14Ω          |
| DC Resistance                   | 0.11Ω (Typ.)   |
| Impedance (at 100MHz)           | 120Ω           |
| Impedance (at 100MHz) Tolerance | ±25%           |

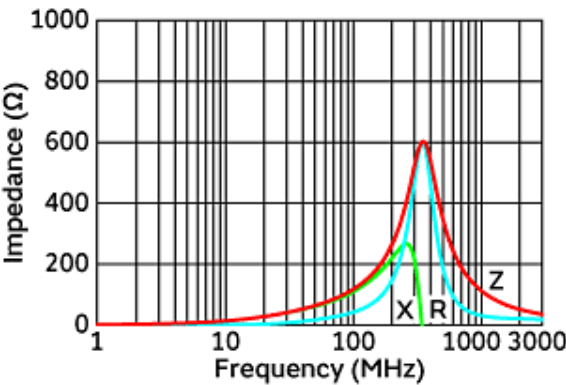
### Attention

- 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.

# NFZ18SM121SZ10#

“#” indicates a package specification code.

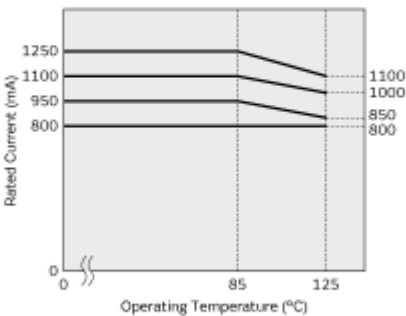
## Product Data



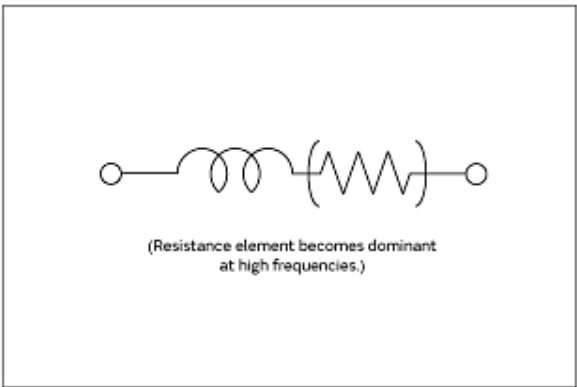
Impedance-Frequency Characteristics

In operating temperature exceeding +85°C, derating of current is necessary for NFZ18SM series.  
Please apply the derating curve shown in chart according to the operating temperature.

Derating of Rated Current



Derating of Rated Current



Equivalent Circuit

### 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.