# NFZ18SM501SZ10#

"#"at the end indicates the package specification code.

In Production | AEC-Q200 | RoHS | REACH

## < List of part numbers with package codes >

NFZ18SM501SZ10B NFZ18SM501SZ10D

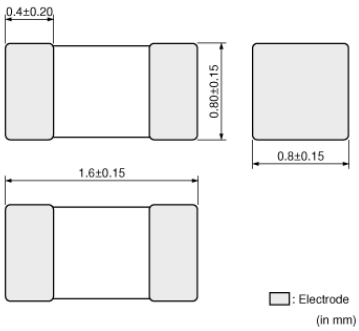
## Applications

| | |
|---|---|
| Unsuitable Applications | Please be sure to read and comply with these "Precautions for use." |
| Specific Applications | Automotive infotainment/comfort equipment,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 | Automotive infotainment/comfort equipment |

## Packaging Information

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

## Appearance & Shape



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## 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.

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## Specifications

| | |
|---|---|
| Shape | SMD |
| 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 |
| Operating Temperature Range | -55℃ to 125℃ |
| Mass(typ.) | 0.005g |
| Number of Circuit | 1 |
| Rated Current (at 85℃) | 950mA |
| Rated Current (at 125℃) | 850mA |
| DC Resistance(max.) | 0.25Ω |
| DC Resistance | 0.20Ω (Typ.) |
| Impedance (at 100MHz) | 500Ω |
| Impedance (at 100MHz) Tolerance | ±25% |
| Size Code (in mm) | 1608 |

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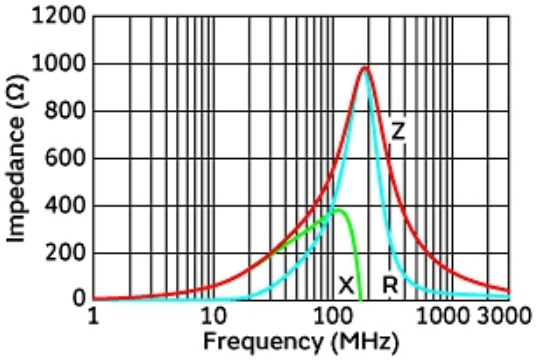
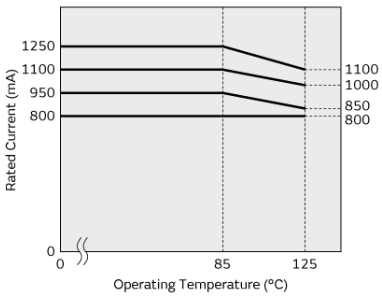
## Product Data



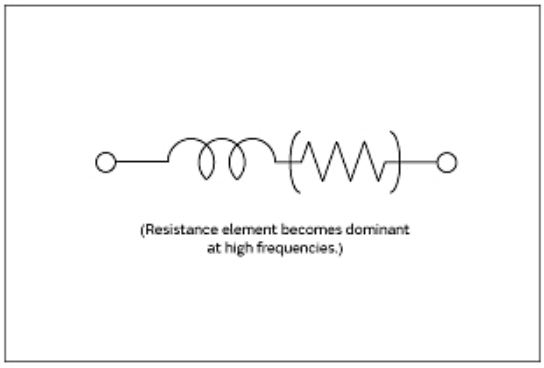

Impedance-Frequency Characteristics

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