Note: This datasheet may be out of date.

Please download the latest datasheet of NFW31SP106X1E4# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=NFW31SP106X1E4%23

"#" indicates a package specification code.

NFW31SP106X1E4#





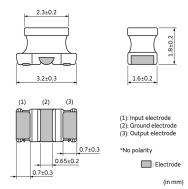


< List of part numbers with package codes > NFW31SP106X1E4K
NFW31SP106X1E4L



Appearance & Shape





Applications

Other Usage For general



Packaging Information

Packaging	Specifications	Standard Packing Quantity
К	330mm Embossed Tape	7500
L	180mm Embossed Tape	2000



Features

The signal line chip EMI filter NFW31SP series consists of high performance EMI suppression filters. They are designed for noise suppression in high speed signal digital circuits in which the signal harmonics are prone to becoming noise sources. These filters achieve a 100dB/dec. (typ.) damping characteristic with Murata's innovative circuit design. This makes these chips effective in applications where the signal and noise frequencies are close to each other.

Features

- 1. Suppresses signal noise with little or no attenuation of the signal itself.
- 2. Murata's original internal structure design enables excellent noise suppression up to high frequencies (40dB at 1GHz typ.).
- 3. NFW31SP series is available in 9 different values of cut-off frequency ranging from 10MHz up to 500MHz.

1 of 3

Attention

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- 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.

NFW31SP106X1E4#

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"#" indicates a package specification code.



Specifications

Shape	SMD
Size Code (in inch)	1206
Length	3.2mm
Length Tolerance	±0.3mm
Width	1.6mm
Width Tolerance	±0.2mm
Thickness	1.8mm
Thickness Tolerance	±0.2mm
Operating Temperature Range	-40°C to 85°C
Mass(typ.)	0.03g
Number of Circuit	1
Rated Current	200mA
Rated Voltage	25Vdc
Insertion Loss	6dB max.(at 10MHz),5dB min. (at 20MHz),25dB min.(at 50MHz),25dB min.(at 100MHz),25dB min.(at 200MHz),30dB min.(at 500MHz),30dB min.(at 1000MHz)
Nominal Cut-off Frequency	10MHz
Size Code (in mm)	3216

2 of 3

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NFW31SP106X1E4#

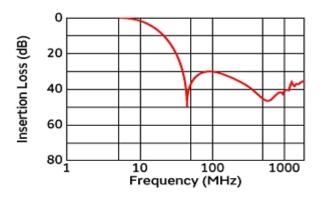
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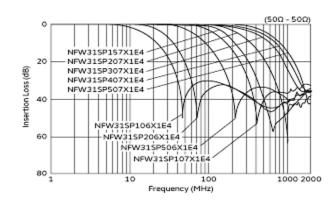
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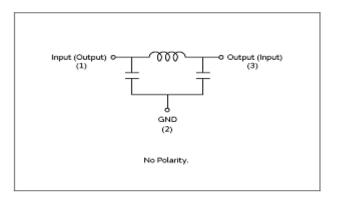
Product Data





Insertion Loss Characteristics

Insertion Loss Characteristics (Main Items)



Equivalent Circuit

3 of 3

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