

NFL18ST507X1C3#

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

Discontinued

RoHS

REACH

< List of part numbers with package codes >

NFL18ST507X1C3B

NFL18ST507X1C3D

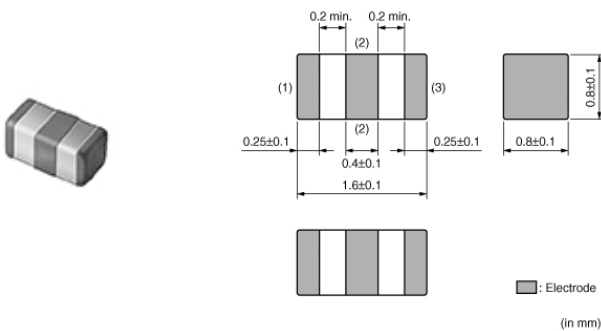
Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy equipment 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	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	200mA
Rated Voltage	16Vdc
Withstanding Voltage	50Vdc
Insulation Resistance(min.)	1000MΩ
Nominal Cut-off Frequency	500MHz
Capacitance	10pF
Capacitance Tolerance	±20%
Inductance	43nH
Inductance Tolerance	±20%
Size Code (in mm)	1608

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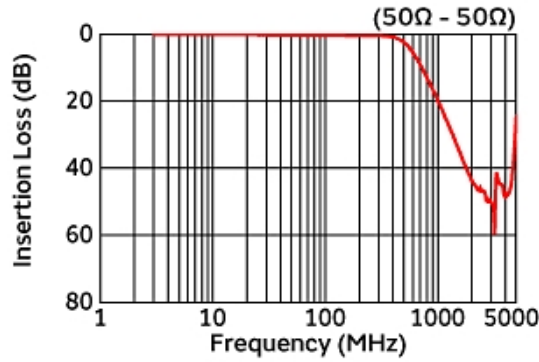
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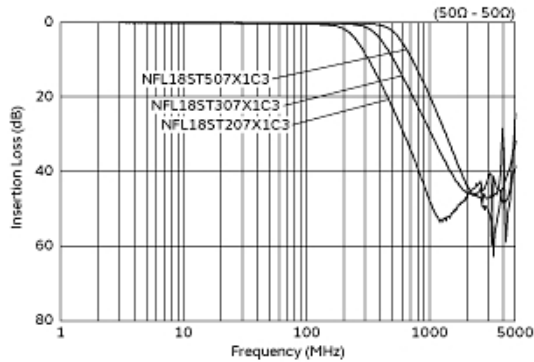
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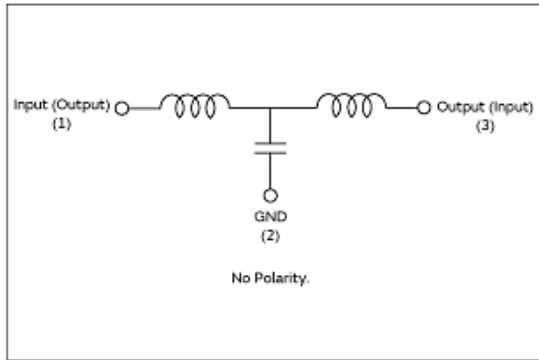
Product Data



Insertion Loss Characteristics



Insertion Loss Characteristics (Main Items)



Equivalent Circuit

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