

# NFP0RSN112HL2#

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

Discontinued

RoHS

REACH

## < List of part numbers with package codes >

NFP0RSN112HL2B

NFP0RSN112HL2D

## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	<p>Consumer Electronics - Differential Transmission, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector, Industrial equipment except for transportation &amp; facility &amp; energy equipment</p> <p>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.</p>
Recommended Applications	Consumer equipment

## Packaging Information

Packaging	Specifications	Standard Packing Quantity
B	Bulk(Bag)	500
D	180mm Paper Tape	15000

## Features

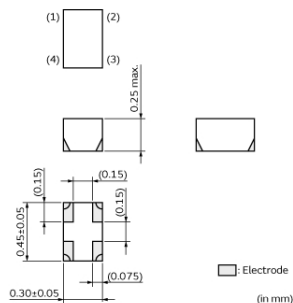
1. Small size and tight dimensional tolerance  
Size: 0.45x0.30x0.25mm
2. Common mode noise suppression effect  
( The effect become maximum at 1.1GHz and 1.2GHz )
3. Prevents signal damaging in high speed differential lines.
4. Designed to match line impedance.

### ■Application

Common mode noise suppression of high speed differential signal lines for mipi, USB 2.0, IEEE1394, LVDS etc.

1. Note PCs
2. Cellular phones
3. Digital Still Cameras, Digital Video Cameras

## Appearance & Shape



Electrode  
(in mm)

### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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## Specifications

Shape	SMD
Size Code (in mm)	0403
Size Code (in inch)	018012
Length	0.45mm
Length Tolerance	±0.05mm
Width	0.3mm
Width Tolerance	±0.05mm
Thickness	0.25mm
Thickness Tolerance	max.
Common Mode Impedance (at 100MHz)	90Ω
Common Mode Impedance (at 100MHz) Tolerance	(Typ.)
Common Mode Insertion Loss Characteristic	11dB Typ.(240MHz), 22dB Typ.(700MHz), 25dB Typ.(900MHz), 22dB Typ.(1.7GHz), 17dB Typ.(2.4GHz)
Rated Current	50mA
Derating of Rated Current	No
Rated Voltage	5Vdc
Withstanding Voltage	12.5Vdc
DC Resistance(max.)	3.9Ω
DC Resistance	3.0Ω±30%
Insulation Resistance(min.)	100MΩ
Cut-off Frequency	4.0GHz (Typ.)
Operating Temperature Range	-40°C to 85°C
Mass(typ.)	0.2mg

Number of Circuit	1
Operating Temperature Range(Self-temperature rise is included)	No
Brand	Murata

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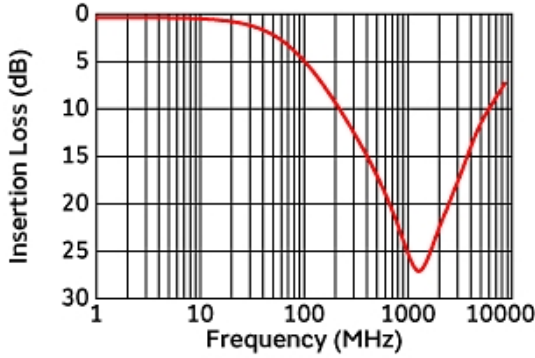
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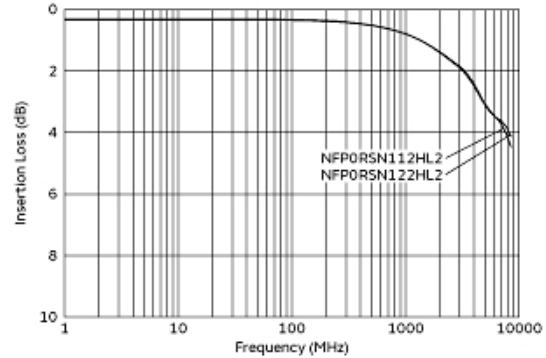
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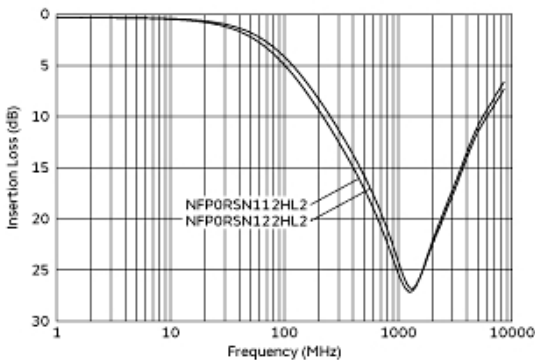
## Product Data



Common Mode Insertion Loss Characteristic  
(Typical Value)



Differential Mode Transmission Characteristics  
(Typical Value)

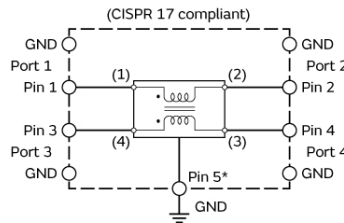


Common Mode Insertion Loss Characteristic  
(Main Items)(Typical Value)

### Equivalent Circuit (Note 1)



Note1: The Port/Pin No. of the Simulation Model provided by our company is as follows.



S-parameter: Port ☐  
SPICE model: Pin ☐ (Pin5\* connect to GND)

### Equivalent Circuit

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