

# NFG0QHB242HS2#

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

In Production

RoHS

REACH

## < List of part numbers with package codes >

NFG0QHB242HS2B

NFG0QHB242HS2D

## 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, Displayport 1.4

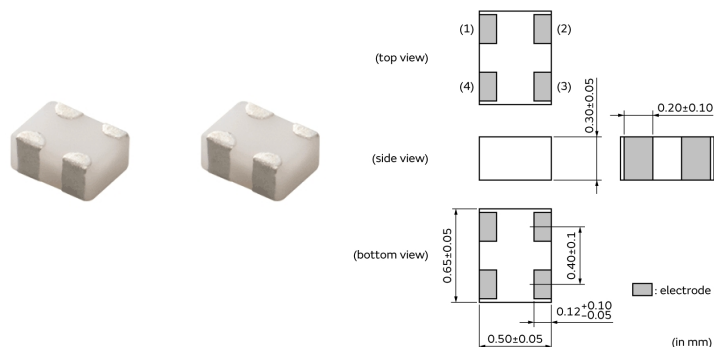
## Packaging Information

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

## Features

1. Small size and tight dimensional tolerance  
Size: 0.65x0.50x0.30mm  
Tolerance: +0.05mm
2. Common mode noise suppression effect  
(The effect become maximum at 2.4GHz, 3.7GHz and 5.4GHz)
3. Prevents signal damaging in high speed differential lines.
4. Designed to match line impedance.

## Appearance & Shape



### ■Application

High speed differential signal lines.  
HDMI,DVI,DisplayPort,USB3.0 etc.

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

### 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.

# NFG0QHB242HS2#

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



## Specifications

Shape	SMD
Size Code (in mm)	0605
Size Code (in inch)	025020
Length	0.65mm
Length Tolerance	±0.05mm
Width	0.5mm
Width Tolerance	±0.05mm
Thickness	0.3mm
Thickness Tolerance	±0.05mm
Common Mode Impedance (at 100MHz)	15Ω
Common Mode Impedance (at 100MHz) Tolerance	(Typ.)
Common Mode Insertion Loss Characteristic	33dB Typ.(2.4GHz)
Rated Current	100mA
Derating of Rated Current	No
Rated Voltage	5Vdc
Withstanding Voltage	12.5Vdc
DC Resistance(max.)	3.125Ω
DC Resistance	2.5Ω±25%
Insulation Resistance(min.)	100MΩ
Cut-off Frequency	8GHz (Typ.)
Operating Temperature Range	-40°C to 85°C
Mass(typ.)	0.0003g
Number of Circuit	1

Operating Temperature Range(Self-temperature rise is included)	No
Brand	Murata

### 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.

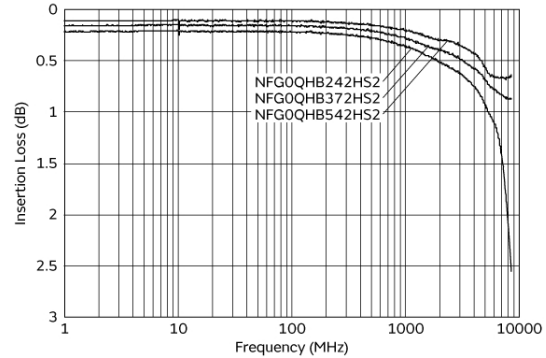
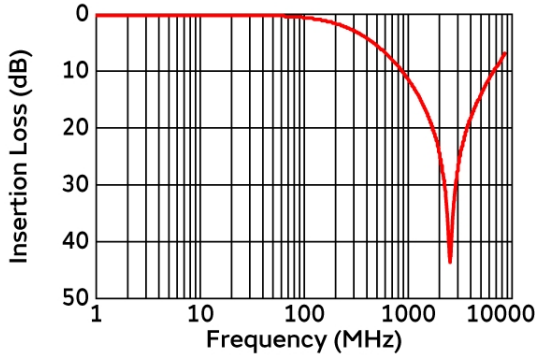
2.This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

# NFG0QHB242HS2#

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

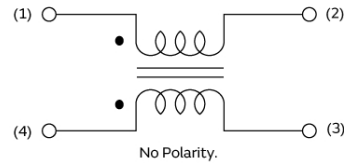
## Product Data



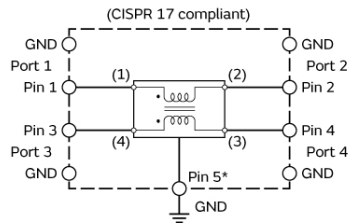
Common Mode Insertion Loss Characteristic  
(Typical Value)

Differential Mode Transmission Characteristics  
(Typical Value)

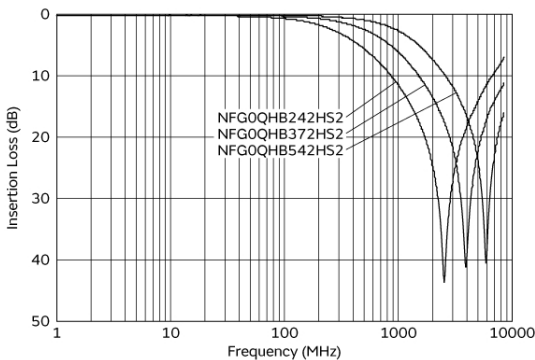
### Equivalent Circuit (Note 1)



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)



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

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.