

## NFG0QHB242HS2#

Note: This datasheet may be out of date.

Please download the latest datasheet of NFG0QHB242HS2# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=NFG0QHB242HS2%2

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







# < List of part numbers with package codes > NFG0QHB242HS2B NFG0QHB242HS2D

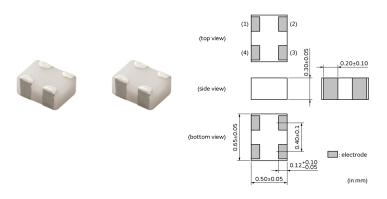


### **Applications**

	In	
Unsuitable	Please be sure to read and comply with	
Applications	these "Precautions for use."	
	Consumer Electronics - Differential	
	Transmission,Medical equipment [GHTF	
	A/B/C] except for implant & surgery &	
	auto injector,Industrial equipment	
	except for transportation & facility &	
	energy equipment	
Specific	Please refer to Our Website and	
Applications	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	Consumer equipment Displayment 1.4	
Applications	Consumer equipment,Displayport 1.4	



### Appearance & Shape





### Packaging Information

		Standard
Packaging	Specifications	Packing
		Quantity
В	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.

#### ■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

1 of 3

#### 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#

Note: This datasheet may be out of date.

Please download the latest datasheet of NFG0QHB242HS2# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=NFG0QHB242HS2%23

"#"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	(Тур.)
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.)	100ΜΩ
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

2 of 3

#### Attention

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



<sup>1.</sup>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.

 $<sup>2.</sup> This \ data{sheet has only typical specifications because there is no space for \ detailed \ specifications.}$ 

## NFG0QHB242HS2#

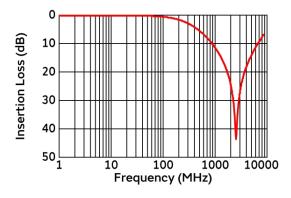
Note: This datasheet may be out of date.

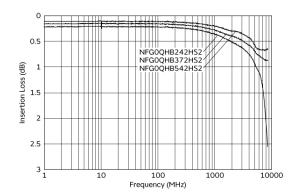
Please download the latest datasheet of NFG0QHB242HS2# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=NFG0QHB242HS2%23

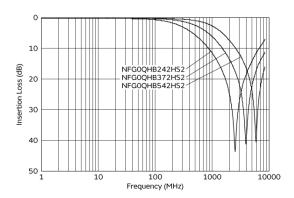
"#"at the end indicates the package specification code.

# Product Data





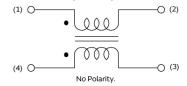
Common Mode Insertion Loss Characteristic (Typical Value)



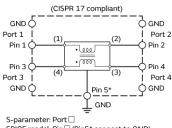
Common Mode Insertion Loss Characteristic (Main Items)(Typical Value)

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.



SPICE model: Pin ☐ (Pin5\* connect to GND)

**Equivalent Circuit** 

3 of 3

### 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

