

Note: This datasheet may be out of date.

Please download the latest datasheet of NFG0QHB542HS2# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=NFG0QHB542HS2%23

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

In Production





< List of part numbers with package codes > NFG0QHB542HS2B NFG0QHB542HS2D

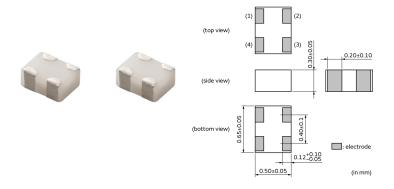


Applications

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,USB2.0,USB3.1
	Gen1,USB3.1 Gen2,MIPI D-PHY Ver1.1,
	MIPI D-PHY Ver1.2, MIPI M-PHY Ver3.1,
Applications	HDMI 1.4b,HDMI 2.0,Displayport 1.4,
	HDMI 2.1



Appearance & Shape





Packaging Information

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

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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.





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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

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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)	5Ω
Common Mode Impedance (at 100MHz) Tolerance	(Тур.)
Common Mode Insertion Loss Characteristic	27dB Typ.(5.4GHz)
Rated Current	100mA
Derating of Rated Current	No
Rated Voltage	5Vdc
Withstanding Voltage	12.5Vdc
DC Resistance(max.)	1.625Ω
DC Resistance	1.3Ω±25%
Insulation Resistance(min.)	100ΜΩ
Cut-off Frequency	18GHz (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

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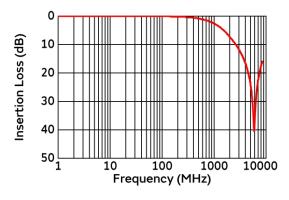
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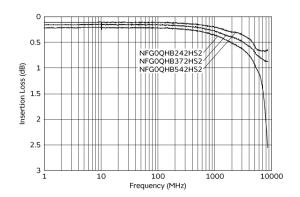
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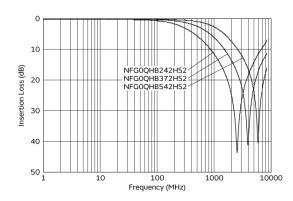
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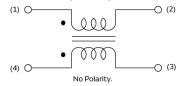


Common Mode Insertion Loss Characteristic (Typical Value)

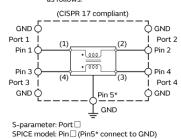


Differential Mode Transmission Characteristics (Typical Value)

■ Equivalent Circuit (Note 1)



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



Equivalent Circuit

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

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