

NFP0QHB542HS2#

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

Discontinued

RoHS

REACH

< List of part numbers with package codes >

NFP0QHB542HS2B

NFP0QHB542HS2D

Applications

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

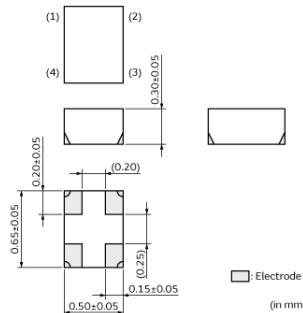
1. Small size and tight dimensional tolerance
Size: 0.65x0.50x0.30mm
Tolerance: +0.05mm
2. Common mode noise suppression effect
(The effect become maximum at 2.4GHz, 3.7GHz and 5.4GHz)
3. Prevents signal damaging in high speed differential lines.
4. Designed to match line impedance.

■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

Appearance & Shape



Attention

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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 Insertion Loss Characteristic | 30dB Typ.(5.0GHz), 40dB Typ.(5.4GHz), 25dB Typ.(6.0GHz) |
| Rated Current | 100mA |
| Derating of Rated Current | No |
| Rated Voltage | 5Vdc |
| Withstanding Voltage | 12.5Vdc |
| DC Resistance(max.) | 1.95Ω |
| DC Resistance | 1.5Ω±30% |
| Insulation Resistance(min.) | 100MΩ |
| Cut-off Frequency | 10GHz (Typ.) |
| Operating Temperature Range | -40°C to 85°C |
| Mass(typ.) | 0.4mg |
| Number of Circuit | 1 |
| Operating Temperature Range(Self-temperature rise is included) | No |
| Brand | Murata |

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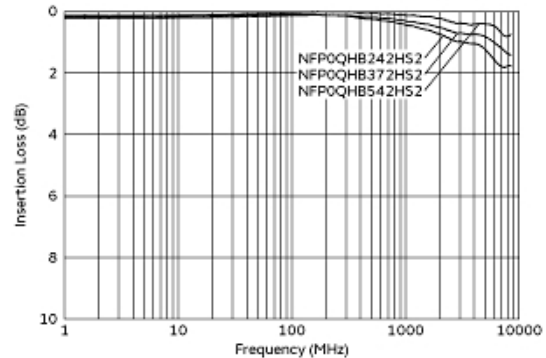
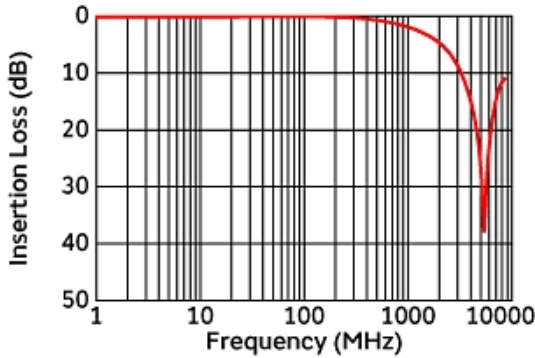
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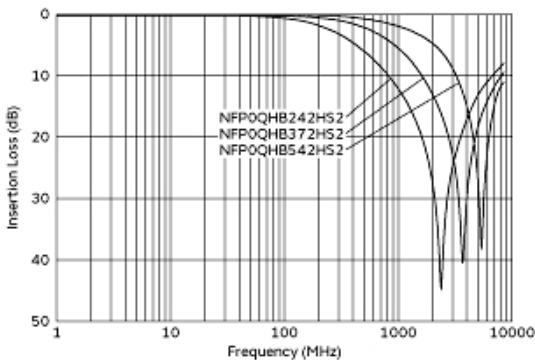
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Product Data

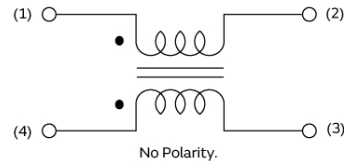


Common Mode Insertion Loss Characteristic
(Typical Value)

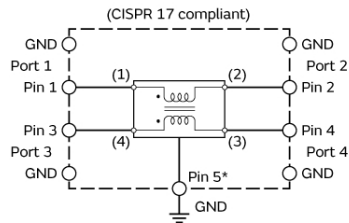
Differential Mode Transmission Characteristics
(Typical Value)



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

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