

## HyperLink Wireless brand 2400-2500 MHz / 4900-5875 MHz Indoor Diplexer - Model: DP2458-NF

### Applications and Features

- Applications:**
- Multiplexes 2.4 and 5 GHz onto single coax cable
  - 802.11a/b/g Access Points and Routers
  - Homeland Security, Public Safety Program
  - WiMAX and Wi-Fi Systems
  - Multi-Band Applications

- Features:**
- Ideal for use with multiband Access Points and Routers
  - Covers entire 5 GHz range from 4.9 to 5.8 GHz
  - Low Insertion Loss
  - Industrial Grade Construction
  - N-Female connectors

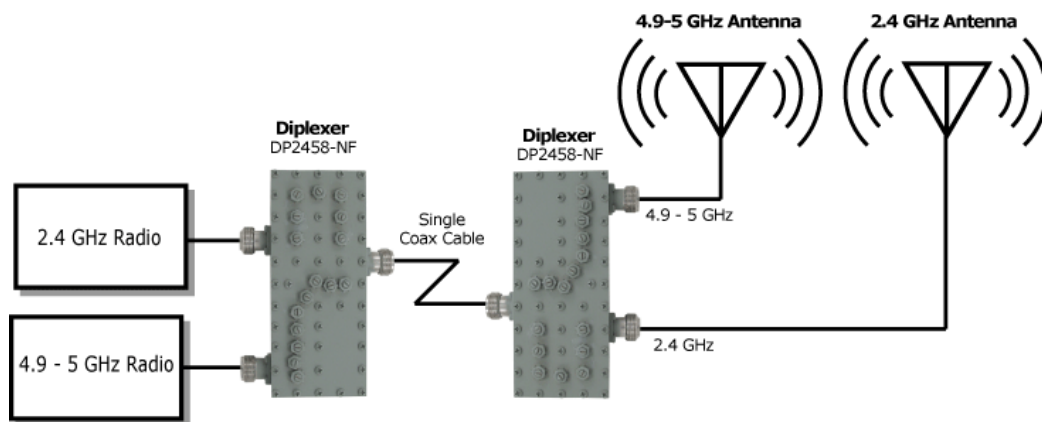


### Description

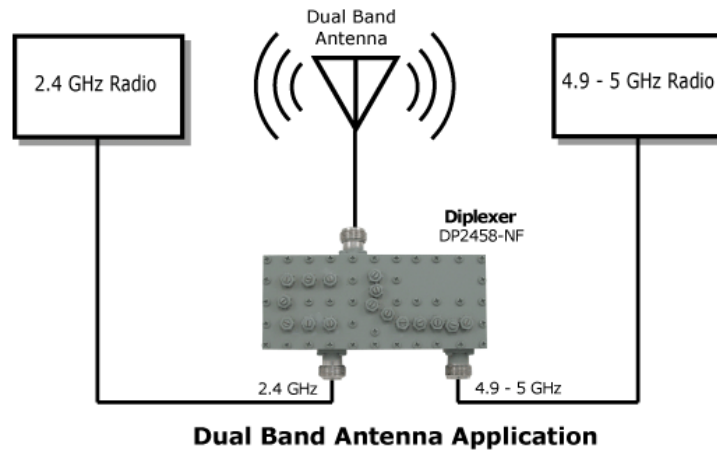
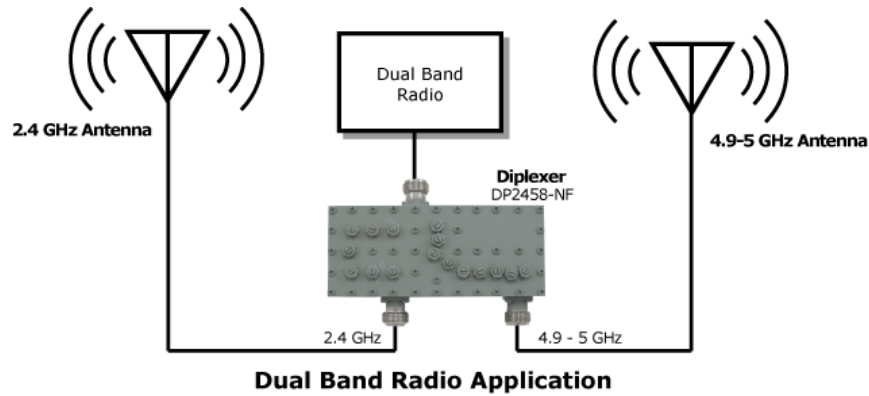
The DP2458-NF Diplexer multiplexes a 2.4 GHz and a 5 GHz signal onto one cable. The DP2458-NF can also be used to split 2.4 GHz and 5 GHz from a single radio feed to separate 2.4GHz and 5GHz antennas. The DP2458-NF features exceptionally low insertion loss and high isolation. This is ideal for sharing an expensive low-loss coax cable when running two separate radios.

Designed for indoor use, the DP2458-NF features N-Female connectors. Its industrial grade construction helps ensure many years of trouble free operation.

The following diagrams are typical applications for the DP2458:



**Dual Radio / Dual Antennas Application**



## Specifications

|                               |                            |
|-------------------------------|----------------------------|
| <b>Frequencies</b>            | Low: 2400-2500 MHz         |
|                               | High: 4900-5875 MHz        |
| <b>Bandwidth (MHz)</b>        | Low: 100 MHz               |
|                               | High: 975 MHz              |
| <b>Insertion Loss</b>         | Low: ≤ 0.25 dB             |
|                               | High: ≤ 0.25 dB            |
| <b>Isolation</b>              | Low: ≥ 60 @ 4900-5875 MHz  |
|                               | High: ≥ 80 @ 2400-2500 MHz |
| <b>VSWR</b>                   | Low: ≤ 1.25 dB             |
|                               | High: ≤ 1.25 dB            |
| <b>Power Rating</b>           | 50 Watt                    |
| <b>Impedance</b>              | 50 Ω                       |
| <b>Temperature Range</b>      | -40° C to +85° C           |
| <b>Connectors</b>             | N-Female                   |
| <b>Dimensions (L x D x H)</b> | 4.9 x 2.0 x 1.5 (inches)   |
|                               | 124 x 52 x 38 (mm)         |
| <b>Weight</b>                 | 0.75 lbs. (.34 kg)         |